

## Product datasheet for **TP324930L**

### **KIF4B (NM\_001099293) Human Recombinant Protein**

#### Product data:

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:                         | Recombinant Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Description:                          | Purified recombinant protein of Homo sapiens kinesin family member 4B (KIF4B), 1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Species:                              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Expression Host:                      | HEK293T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Expression cDNA Clone or AA Sequence: | >RC224930 representing NM_001099293<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                       | <p>MKEEVKGIPVRVALRCRPLVPKEISEGCMCLSFVPGETQVWVGTDKSFTYDFVDFPCTEQEEVFNKAVA<br/>         PLIKGIFKGYNATVLAYGQTGSGKTYSMGGAYTAEQENEPTVGIIIPRVIQLLFKEIDKKSDFEFTLKVS<br/>         LEIYNEEILDLLCPSREKAQINIREDPKEGIKIVGLTEKTVLVALDTVSCLEQGNNSTRTASTAMNSQSS<br/>         RSHAIFTISIEQRKSDKNCSFRSLHLVDLAGSERQKKTAEGRDLKEGININRGLLCLGNVISALGDD<br/>         KKGFSVPYRDSKLTRLLQDSLGGNSHTLMIACVSPADSNEETLSTLRYADRARKIKNKPIVNIDPHTAE<br/>         LNHLKQQVQQLQVLLLQAHGGTLPGSINAEPSENLSLMEKNQSLVEENEKLSRCLSKAAGQTAQMLER<br/>         I<br/>         ILTEQVNEKLNKLEELRQHVACKLDLQKLVTLEDQELKENVEIICNLQQLITQLSDETVACTAAIDT<br/>         AVEEEAQVETSPETSRSSDAFTTQHALHQAQMSKEVVELNNALALKEALVRKMTQNDNQLQPIQFYQD<br/>         N<br/>         IKNLELEVINLQKEKEELVRELQTAKKNVNQAKLSEHRHKLLELEGQIADLKKKLNEQSKLLKLKESTE<br/>         RTVSKLNQEIWMMKNQRVQLMRQMKEDAERFRQWKQKDKKEVIQLKERDRKRQYELLKLERNFQKQS<br/>         SVL<br/>         RRKTEAAAAANKRLKDALQKQREVTDKRKETQSHGKEGIAARVRNWLGNIEVMVSTEEAKRHLNDLLED<br/>         RKILAQDVVQLKEKKESRENPPPKLRKCTFSLSEVHGQVLESEDCITKQIESLETMEELRSAQIADLQKQ<br/>         LLDAESEDPRKQCWENIATILEAKCALYKYLIGELVSSKIHVTKLENSLRQSKASCADMQKMLFEEQNHS<br/>         EIETELQAEVRMEQQHQEKVLYLVSQLQESQMAEKQLEKSASEKEQQLVSTLQCQDEELEKMRVCEQN<br/>         QQLLQENEEIKQLILLQVSRQKHLPNDTLLSPDSSFYIPPKPKPSRVKEKFLEQSMIEDLKYCSEH<br/>         SVNEHEDGDGDSDDEGDEEWKPTKLVKVSRKNIQGCSCGWCGNKQCGCRKQKSDCGVDCSDPT<br/>         KCR<br/>         NRQQGKDSLGTVEQTQDSEGSFKLEDPTVEVTPGLSFFNPVCATPNSKILKEMCDMEQVLSKKTAPAPSPF<br/>         DLPESKHGATEYQQNKPPGKKKKRALASNTSFFSGCSPIEEEAH</p> |

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

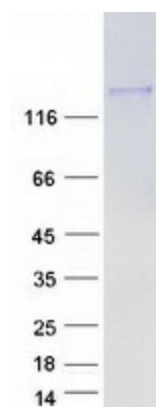
Tag: C-Myc/DDK



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|                          |                                                                                                                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Predicted MW:</b>     | 139.9 kDa                                                                                                                                                                                                                                   |
| <b>Concentration:</b>    | >0.05 µg/µL as determined by microplate BCA method                                                                                                                                                                                          |
| <b>Purity:</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                 |
| <b>Buffer:</b>           | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol                                                                                                                                                                                        |
| <b>Preparation:</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                                                                                                            |
| <b>Note:</b>             | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.                                                                                        |
| <b>Storage:</b>          | Store at -80°C.                                                                                                                                                                                                                             |
| <b>Stability:</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                               |
| <b>RefSeq:</b>           | <u>NP_001092763</u>                                                                                                                                                                                                                         |
| <b>Locus ID:</b>         | 285643                                                                                                                                                                                                                                      |
| <b>UniProt ID:</b>       | <u>Q2VIQ3</u>                                                                                                                                                                                                                               |
| <b>RefSeq Size:</b>      | 4426                                                                                                                                                                                                                                        |
| <b>Cytogenetics:</b>     | 5q33.2                                                                                                                                                                                                                                      |
| <b>RefSeq ORF:</b>       | 3702                                                                                                                                                                                                                                        |
| <b>Summary:</b>          | This gene is an intronless retrocopy of kinesin family member 4A. The protein encoded by this gene is a microtubule-based motor protein that plays vital roles in anaphase spindle dynamics and cytokinesis. [provided by RefSeq, Jul 2016] |
| <b>Protein Families:</b> | Druggable Genome                                                                                                                                                                                                                            |

## Product images:



Coomassie blue staining of purified KIF4B protein (Cat# [TP324930]). The protein was produced from HEK293T cells transfected with KIF4B cDNA clone (Cat# [RC224930]) using MegaTran 2.0 (Cat# [TT210002]).