

## Product datasheet for **TP306847M**

### PAK4 (NM\_001014831) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human p21 protein (Cdc42/Rac)-activated kinase 4 (PAK4), transcript variant 2, 100 µg |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC206847 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)                                 |

MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTI  
VRGSKGAKDGALLLLLDEFENMSVTRSNLRRDSPPPPARARQENGMPEEPATTARGGPGKAGSRGRFAG  
HSEAGGGSGDRRRRAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTQPAGLASGAKLAAGRPFNTYPR  
ADTDHPSRGAQGEPHDVAPNGPSAGGLAIPQSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAA  
PAVPGPPGPRSPQREPQRVSHEQFRAALQLVDPGDPRSYLDNFIKIGEGSTGIVCIATVRSSGKLVAVK  
KMDLRKQQRRELLFNEVIMRDIYQHENVVEMYNSYLVGDELWVVMFLEGGALTDIVTHTRMNEEQIAAV  
CLAVLQALSVLHAQGVHRDIKSDSILLTHDGRVKLSDFGCAQVSKEVPRRKS LVGTPYWMAPELISRL  
PYGPEVDIWSL GIMVIEMVDGEPYFNEPPLKAMK MIRDNLPPRLKNLHKVSPSLKGF LDRLLVRDPAQR  
ATAAELLKHPFLAKAGPPASIVPLMRQNRTR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

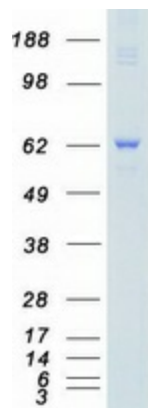
|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 63.9 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:       | Store at -80°C.  |



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|                          |   |
|--------------------------|---|
| <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>           | <a href="#">NP_001014831</a>  |
| <b>Locus ID:</b>         | 10298   |
| <b>UniProt ID:</b>       | <a href="#">O96013</a> , <a href="#">A0A024R0J1</a>   |
| <b>RefSeq Size:</b>      | 3064  |
| <b>Cytogenetics:</b>     | 19q13.2   |
| <b>RefSeq ORF:</b>       | 1773  |
| <b>Summary:</b>          | PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| <b>Protein Families:</b> | Druggable Genome, Protein Kinase  |
| <b>Protein Pathways:</b> | Axon guidance, ErbB signaling pathway, Focal adhesion, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway  |

### Product images:



Coomassie blue staining of purified PAK4 protein (Cat# [TP306847]). The protein was produced from HEK293T cells transfected with PAK4 cDNA clone (Cat# [RC206847]) using MegaTran 2.0 (Cat# [TT210002]).