

## Product datasheet for TP523946

### Tnfrsf14 (NM\_178931) Mouse Recombinant Protein

#### Product data:

|  |   |
|--|---|
| <b>Product Type:</b>                         | Recombinant Proteins  |
| <b>Description:</b>                          | Purified recombinant protein of Mouse tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) (Tnfrsf14), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug  |
| <b>Species:</b>                              | Mouse   |
| <b>Expression Host:</b>                      | HEK293T   |
| <b>Expression cDNA Clone or AA Sequence:</b> | >MR223946 representing NM_178931<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)  |
|  | MEPLPGWGSAPWSQAPTDNTFRLVPCVFLNLLQRISAQPSQRQEFLVGDECCPMCNPGYHVKQVCSE<br>H<br>TGTVCAPCPPQTYTAHANGLSKCLPCGVCDPDMGLLTWQECSSWKDTCRCIPGYFCENQDGSHCSTCL<br>Q<br>HTTCCPPGQRVEKRGTHDQDTCADCLTGTFSLGGTQEELPWTNCSAFQQEVRRTNSTDTTCCSSQWVY<br>VVSILLPLVIVGAGIAGFLICTRRHLHTSSVAKELEPFQEQQENTIRFPVTEVGFATEEETASN |
|  | <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>  |
| <b>Tag:</b>                                  | C-MYC/DDK   |
| <b>Predicted MW:</b>                         | 30.2 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>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 after receiving vials.   |
| <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_849262</a>   |
| <b>Locus ID:</b>                             | 230979  |

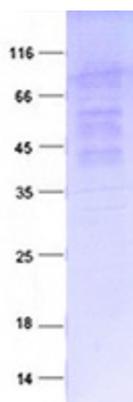


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|               |                           |
|---------------|---------------------------|
| UniProt ID:   | <u>Q80WM9</u>             |
| RefSeq Size:  | 893                       |
| Cytogenetics: | 4 E2                      |
| RefSeq ORF:   | 825                       |
| Synonyms:     | Atar; HveA; Hvem; Tnfrs14 |

**Summary:** Receptor for four distinct ligands: The TNF superfamily members TNFSF14/LIGHT and homotrimeric LTA/lymphotoxin-alpha and the immunoglobulin superfamily members BTLA and CD160, altogether defining a complex stimulatory and inhibitory signaling network (By similarity). Signals via the TRAF2-TRAF3 E3 ligase pathway to promote immune cell survival and differentiation (PubMed:19915044). Participates in bidirectional cell-cell contact signaling between antigen presenting cells and lymphocytes. In response to ligation of TNFSF14/LIGHT, delivers costimulatory signals to T cells, promoting cell proliferation and effector functions (By similarity). Interacts with CD160 on NK cells, enhancing IFNG production and anti-tumor immune response (PubMed:25711213). In the context of bacterial infection, acts as a signaling receptor on epithelial cells for CD160 from intraepithelial lymphocytes, triggering the production of antimicrobial proteins and proinflammatory cytokines (PubMed:22801499). Upon binding to CD160 on activated CD4+ T cells, downregulates CD28 costimulatory signaling, restricting memory and alloantigen-specific immune response (By similarity). May interact in cis (on the same cell) or in trans (on other cells) with BTLA (PubMed:19915044, PubMed:15568026). In cis interactions, appears to play an immune regulatory role inhibiting in trans interactions in naive T cells to maintain a resting state. In trans interactions, can predominate during adaptive immune response to provide survival signals to effector T cells (PubMed:19915044, PubMed:15568026).[UniProtKB/Swiss-Prot Function]

## Product images:



Coomassie blue staining of purified Tnfrsf14 protein (Cat# TP523946). The protein was produced from HEK293T cells transfected with Tnfrsf14 cDNA clone (Cat# [MR223946]) using MegaTran 2.0 (Cat# [TT210002]).