

Datasheet for ABIN7194456
MERTK Protein (Fc Tag)[Go to Product page](#)

1 Image

Overview

| | |
|-------------------------------|---|
| Quantity: | 100 µg |
| Target: | MERTK |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This MERTK protein is labelled with Fc Tag. |

Product Details

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| Purpose: | Recombinant Mouse MERTK/MER Protein (Fc Tag) |
| Sequence: | Met 1-Phe 498 |
| Characteristics: | A DNA sequence encoding the mouse MERTK (Q60805) extracellular domain (Met 1-Phe 498) was fused with the Fc region of human IgG1 at the C-terminus. |
| Purity: | > 90 % as determined by SDS-PAGE |
| Endotoxin Level: | < 1.0 EU per µg of the protein as determined by the LAL method. |

Target Details

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| Target: | MERTK |
| Alternative Name: | MERTK/MER (MERTK Products) |
| Background: | Background: Proto-oncogene tyrosine-protein kinase MER (MERTK) is a member of the MER/AXL/TYRO3 receptor kinase family and encodes a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type (immunoglobulin-like) domains, and one |

Target Details

tyrosine kinase domain. MERTK is localized in membrane and is no expressed in normal B- and T-lymphocytes but is expressed in numerous neoplastic B- and T-cell lines. This protein is highly expressed in testis, ovary, prostate, lung, and kidney, with lower expression in spleen, small intestine, colon, and liver. MERTK regulates many physiological processes including cell survival, migration, differentiation, and phagocytosis of apoptotic cells (efferocytosis). Ligand binding at the cell surface induces autophosphorylation of MERTK on its intracellular domain that provides docking sites for downstream signaling molecules. MERTK signaling plays a role in various processes such as macrophage clearance of apoptotic cells, platelet aggregation, cytoskeleton reorganization and engulfment. MERTK plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3. Defects in MERTK are the cause of retinitis pigmentosa type 38.

Synonym: Eyk,Mer,nmf12,Nyk

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|-------------------|----------|
| Molecular Weight: | 79.3 kDa |
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| UniProt: | Q60805 |
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| Pathways: | RTK Signaling |
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Application Details

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| Restrictions: | For Research Use only |
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Handling

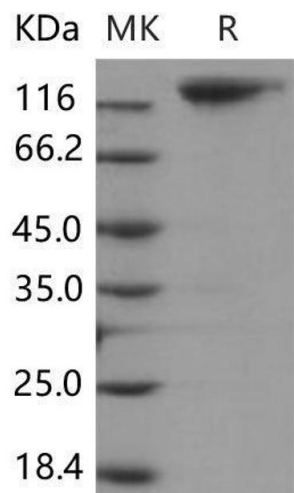
| | |
|---------|-------------|
| Format: | Lyophilized |
|---------|-------------|

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| Reconstitution: | Please refer to the printed manual for detailed information. |
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| Buffer: | Lyophilized from sterile PBS, pH 7.4 |
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| Storage: | 4 °C,-20 °C,-80 °C |
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| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
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Western Blotting

Image 1.