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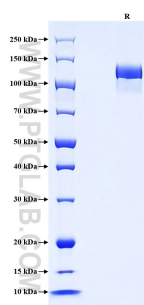
Recombinant Mouse Tie-2/CD202b protein (rFc Tag)



Catalog Number: Eg1514

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Mouse Tie-2 protein Ala23-Lys744 (Accession# Q02858) with a rabbit IgG Fc tag at the C-terminus.</p> <p>GeneID: 21687</p> <p>Accession: Q02858</p> <p>Predicted Molecular Mass: 106.9 kDa</p> <p>SDS-PAGE: 120-140 kDa, reducing (R) conditions</p> <p>Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Tie-2, also known as CD202b or TEK, is a receptor tyrosine kinase (RTK) specifically expressed in endothelial cells. It plays a crucial role in angiogenesis, forming new blood vessels, and maintaining vascular stability. TIE-2 is a tyrosine kinase receptor expressed mainly by endothelial cells, cancer cells, and some immune cells like monocytes. Tie-2 is a member of the Tie receptor family, characterized by the presence of immunoglobulin and epidermal growth factor (EGF) homology domains. Tie-2 is selectively expressed in endothelial cells and gene deficiency of Tie-2 leads to embryonic lethality due to abnormal vascular development. Ang-1, which is secreted from perivascular cells, has been identified as the major ligand for Tie-2. Binding of Ang-1 to Tie-2 elicits different downstream signaling pathways mainly regulated by Akt, which induces pro-angiogenic responses including the promotion of endothelial cell migration, tube formation and survival.</p>		
References	<ol style="list-style-type: none">1. Dumont DJ. et al. (1992) Oncogene. 7(8):1471-80.2. Duran CL. et al. (2021) Cancers (Basel). 13(22):5730.3. Sato TN. et al. (1995) Nature. 376(6535):70-4.4. Isidori AM. et al. (2016) J Endocrinol Invest. 39(11):1235-1246.5. Fukuhara S. et al. (2010) Histo Histopathol. 25(3):387-96.		
Synonyms	Angiopoietin-1 receptor, CD202b, EC:2.7.10.1, Endothelial tyrosine kinase, HYK		

Selected Validation Data



Purity of Recombinant Mouse Tie-2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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