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Tek

Recombinant Mouse Angiopoietin-1 Receptor / TEK (ECD, Fc Tag)

Catalog No.	CRM729A-Fc CRM729B-Fc	**Quantity:**	100 µg 200 µg

Alternate Names: Angiopoietin-1 receptor, endothelial tyrosine kinase, HYK, STK1, Tunica interna endothelial cell kinase, Tyrosine kinase with Ig and EGF homology domains-2, Tyrosine-protein kinase receptor TEK, Tyrosine-protein kinase receptor TIE-2, mTIE2, p140 TEK, CD202b

Description: Angiopoietin-1 Receptor (TEK) is an endothelial cell-specific receptor tyrosine kinase (RTK) that is known as a functioning molecule of vascular endothelial cells. TEK comprises a subfamily of RTK with TIE, and these two receptors play critical roles in vascular maturation, maintenance of integrity and remodeling. Targeted mutagenesis of both Tek and its agonistic ligand, Angiopoietin-1, result in embryonic lethality, demonstrating that the signal transduction pathways mediated by this receptor are crucial for normal embryonic development. TEK signaling is indispensable for the development of the embryonic vasculature and suggests that TEK signaling may also be required for the development of the tumor vasculature.

UniProt ID: Q02858

Accession Number: NP_038718.2

Protein Construction: A DNA sequence encoding the mouse Tek (Met1-Lys744) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The recombinant mouse Tek consists 964 amino acids with a predicted molecular mass of 107.7 kDa.

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method

Biological Activity: In a functional ELISA, immobilized mouse ANGPT2 at 10 µg/mL (100 µL/well) can bind mouse TEK-Fc. The EC50 of mouse TEK-Fc is 0.58-1.34 µg/mL.

Predicted N-terminal: Val 19

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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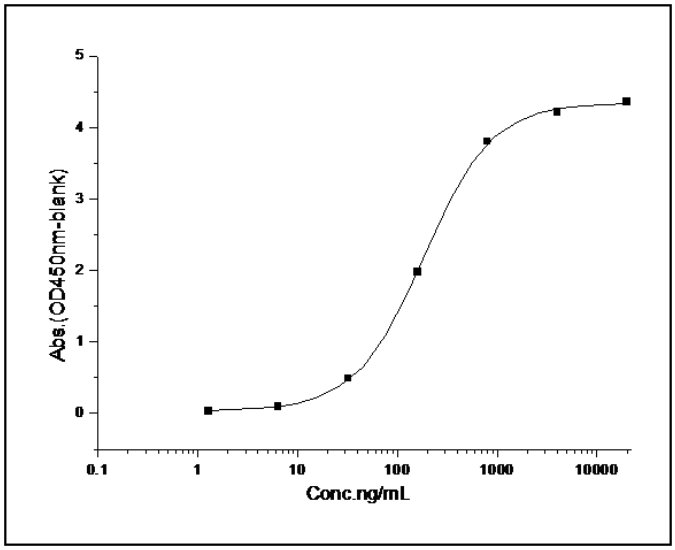
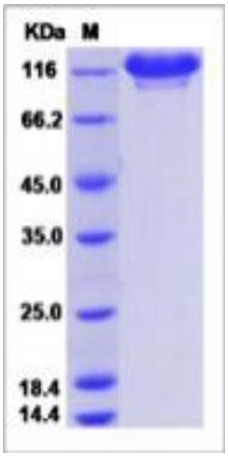
Measured by its binding ability in a functional ELISA. Immobilized mouse ANGPT2 at 10 µg/mL (100 µL/well) can bind mouse TEK-Fc. The EC50 of mouse TEK-Fc is 0.58-1.34 µg/mL.



SDS-PAGE



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