



Recombinant Protein Technical Manual

Recombinant Mouse Tie2/CD202b Protein (aa 770122, His & GST Tag)(Active)
RPES2884

Product Data:

Product SKU: RPES2884

Size: 20µg

Species: Mouse

Expression host: Baculovirus-Insect Cells

Uniprot: Q02858

Protein Information:

Molecular Mass: 68.2kDa

AP Molecular Mass: 68 kDa

Tag: N-His-GST

Bio-activity: 1. No Kinase Activity
2. Measured by its binding ability in a functional ELISA. Immobilized mouse TEK (aa 770122) at 2 µg/ml (100 µl/well) can bind human Ang2-Fc with a linear range of 0.25-2.0 µg/ml.

Purity: > 91 % as determined by SDS-PAGE

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

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% gly

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: AA517024;Cd202b;Hyk;STK1;Tie-2;Tie2

Immunogen Information:

Sequence: Gln770-Ala1122

Background:

TEK, or TIE-2, 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, 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.