



Recombinant Protein Technical Manual

Recombinant Human Tie2/CD202b Protein (His & Fc Tag)(Active)

RPES1362

Product Data:

Product SKU: RPES1362

Size: 100µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_000450.2

Protein Information:

Molecular Mass: 108.5 kDa

AP Molecular Mass: 12535 kDa

Tag: C-His & Fc

Bio-activity: Measured by its binding ability in a functional ELISA. Immobilized recombinant human Angiopoietin-2 at 10 µg/ml (100 µl/well) can bind Human Tie2 / Fc chimera with a range of 0.2-20 µg/ml.

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

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

Application: Functional ELISA

Synonyms: CD202B;TIE-2;TIE2;VMCM;VMCM1

Immunogen Information:

Sequence: Met 1-Lys 745

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.