

Product datasheet for **DM3517B**

TIE1 Mouse Monoclonal Antibody [Clone ID: 6F12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6F12
Applications:	ELISA, FC, WB
Recommended Dilution:	ELISA: 1-15 µg/ml. Western blot: 1-2 µg/ml. FACS: 1-5 µg/ml. Cell sorting: 2-5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human soluble extracellular TIE-1 protein.
Specificity:	This unconjugated monoclonal antibody will detect native TIE-1 in ELISA experiments and on the surface of different cell types.
Formulation:	PBS Label: Biotin State: Lyophilized purified IgG fraction Stabilizer: BSA (50X) Preservative: 0.02% Sodium Azide
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml
Purification:	Protein G Chromatography
Conjugation:	Biotin
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tyrosine kinase with immunoglobulin like and EGF like domains 1



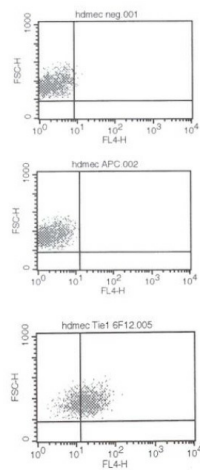
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Database Link: [Entrez Gene 7075 Human P35590](#)

Background: The soluble receptor protein consists of the full extracellular domain (Met1-Glu749). The recombinant mature TIE-1/Fc is a disulfide-linked homodimeric protein. Human TIE-1/Fc monomer has a calculated molecular mass of approximately 105kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 125kDa protein in SDS-PAGE under reducing conditions. TIE-1 (tyrosine kinase with Ig and EGF homology domains 1) and TIE-2/Tek comprise a receptor tyrosine kinase (RTK) subfamily with unique structural characteristics: two immunoglobulin-like domains flanking three epidermal growth factor (EGF)-like domains and followed by three fibronectin type III-like repeats in the extracellular region and a split tyrosine kinase domain in the cytoplasmic region. These receptors are expressed primarily on endothelial and hematopoietic progenitor cells and play critical roles in angiogenesis, vasculogenesis and hematopoiesis. Human TIE-1 cDNA encodes a 1124 amino acid (aa) residue precursor protein with an 18 residue putative signal peptide, a 727 residue extracellular domain and a 354 residue cytoplasmic domain. Whereas two ligands have been described for TIE-2 [angiopoietin-1 (Ang1) and angiopoietin-2 (Ang2)], so far no ligand was found for TIE-1.

Synonyms: TIE, Tie-1

Product images:



FACS analysis with primary human dermal microvascular endothelial cells (HDMVEC). Upper panel: no primary antibody; Middle panel: solely conjugated secondary antibody; Lower panel: Biotin-conjugated anti-Human TIE-1.