

# Product datasheet for DM3517B

### TIE1 Mouse Monoclonal Antibody [Clone ID: 6F12]

#### **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

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
lsotype:	lgG1
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



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	TIE1 Mouse Monoclonal Antibody [Clone ID: 6F12] – DM3517B
Database Link:	<u>Entrez Gene 7075 Human</u> <u>P35590</u>
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 lg 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 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:**

- 1



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.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US