TIE2 Positive Control

PRODUCT OVERVIEW

Product Name	TIE2, Positive Control
Full Product Name	TIE2 Positive Control
Product Gene Name	TIE2 positive control
Product Synonym Names	Angiopoietin 1 receptor; CD202b; Endothelial tyrosine kinase; Endothelium specific receptor tyrosine kinase 2; Hyk; p140 TEK; TEK; tek tyrosine kinase; TIE 2; 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; Venous malformations multiple cutaneous and mucosal; VMCM 1; VMCM antibody
Form/Format	Western Blot Positive Control
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: TIE2 (MBS540764) Positive Control: TIE2 (MBS543311)
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Molecular Weight	120,186 Da
3D Structure	ModBase 3D Structure for B4DTW8
Immunogen	Purified Protein
Immunoglobulin	IgG
Expression	Detected in umbilical vein endothelial cells. Proteolytic processing gives rise to a soluble extracellular domain that is detected in blood plasma (at protein level). Predominantly expressed in endothelial cells and their progenitors, the angioblasts. Has been directly found in placenta and lung, with a lower level in umbilical vein endothelial cells, brain and kidney.
Molecular Function	Kinase, Receptor, Transferase, Tyrosine-protein kinase
Structure	Belongs to the protein kinase superfamily. Tyr protein kinase family. Contains protein kinase domain.
Subcellular Location	Integral component of membrane
Applications Tested/Suitable for TIE2 positive control	Western Blot (WB)
Application Notes for TIE2 positive control	Western Blot: 1:500
Related Product Information for TIE2 positive control	Western Blot Positive Control Tyrosine-protein kinase receptor Tie-1 isoform 2 ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.
Other Notes	Small volumes of TIE2 positive control vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TIE2 purchase	MBS543311 is a positive control targeting TIE2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIE2. It may not necessarily be applicable to this product.

NCBI GI #	358356428
NCBI GeneID	7075
NCBI Accession #	NP_001240286.1
UniProt Primary Accession #	B4DTW8
UniProt Related Accession #	P35590
GenBank Nucleotide #	NM_001253357.1
NCBI Official Full Name	tyrosine-protein kinase receptor Tie-1 isoform 2
NCBI Official Synonym Full Names	tyrosine kinase with immunoglobulin like and EGF like domains 1
NCBI Official Symbol	TIE1
NCBI Official Synonym Symbols	TIE; JTK14
UniProt Protein Name	cDNA FLJ53921, highly similar to Tyrosine-protein kinase receptor Tie-1 (EC 2.7.10.1)
UniProt Synonym Protein Names	cDNA FLJ53921, highly similar to Tyrosine-protein kinase receptor Tie-1 (EC 2.7.10.1)
Protein Family	Tyrosine-protein kinase receptor
UniProt Entry Name	B4DTW8_HUMAN
NCBI Protein Information	tyrosine-protein kinase receptor Tie-1
NCBI Summary for TIE2	This gene encodes a member of the tyrosine protein kinase family. The encoded protein plays a critical role in angiogenesis and blood vessel stability by inhibiting angiopoietin 1 signaling through the endothelial receptor tyrosine kinase Tie2. Ectodomain cleavage of the encoded protein relieves inhibition of Tie2 and is mediated by multiple factors including vascular endothelial growth factor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]
Research Articles on TIE2	**1.** The decreasing expression of Tie1 may play an important role in the pathogenesis of primary lower extremity varicose veins.
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