Mouse Monoclonal Antibody to Human Tyrosine Kinase With Immunoglobulin-like And EGF-like Domains 1

Cat. No. CAB11615MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Tyrosine Kinase With Immunoglobulin-like And EGF-like Domains 1
Species	Human
Source	Mouse
Antigen Description	Tyrosine-protein kinase receptor Tie-1, also known as TIE1, is a single-pass type I membrane protein which belongs to the protein kinase superfamily, Tyr protein kinase family and Tie subfamily. TIE1 contains three EGF-like domains, three fibronectin type-III domains, two Ig-like C2-type (immunoglobulin-like) domains and one protein kinase domain. TIE1 is an endothelial-cell-specific tyrosine kinase receptor. It is a cell surface protein expressed exclusively in endothelial cells. It is required for the survival and growth of microvascular endothelial cells during the capillary sprouting phase of vascular development. TIE1 is an orphan receptor tyrosine kinase that is expressed almost exclusively in endothelial cells and that is required for normal embryonic vascular development. TIE1 upregulates the cell adhesion molecules (CAMs) VCAM-1, E-selectin, and ICAM-1 through a p38-dependent mechanism. Attachment of monocyte derived immune cells to endothelial cells is also enhanced by TIE1 expression. TIE1 has a proinflammatory effect and may play a role in the endothelial inflammatory diseases such as atherosclerosis.
Specificity	Human Tie1. No cross-reactivity in ELISA with Human Tie2; Human cell lysate (293

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	cell line)
Immunogen	Recombinant Human Tie1 Protein
Isotype	Mouse IgG2b
Clone	9E3E3
Applications	Western blot
Dilution	This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human TIE1 in WB. Using a DAB detection system, the detection limit for Human TIE1 is approximately 8 ng/lane under non-reducing conditions and reducing conditions.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human Tie1. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	TIE1 tyrosine kinase with immunoglobulin-like and EGF-like domains 1 [Homo

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	sapiens]
Official Symbol	TIE1
Synonyms	TIE1; tyrosine kinase with immunoglobulin-like and EGF-like domains 1; TIE,tyrosine kinase with immunoglobulin and epidermal growth factor homology domains 1; tyrosine-protein kinase receptor Tie-1; JTK14; tyrosine kinase with immunoglobulin and epidermal growth factor homology domains 1; TIE;
Gene ID	7075
mRNA Refseq	NM_001253357
Protein Refseq	NP_001240286
MIM	600222
UniProt ID	P35590
Chromosome Location	1p34-p33
Function	ATP binding; nucleotide binding; protein binding; protein tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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