

Product datasheet for **AM31937PU-N**

TIE1 Mouse Monoclonal Antibody [Clone ID: 1G10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1G10
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Human TIE1 protein
Specificity:	This antibody recognizes Human TIE1.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tyrosine kinase with immunoglobulin like and EGF like domains 1
Database Link:	Entrez Gene 7075 Human P35590



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Background:

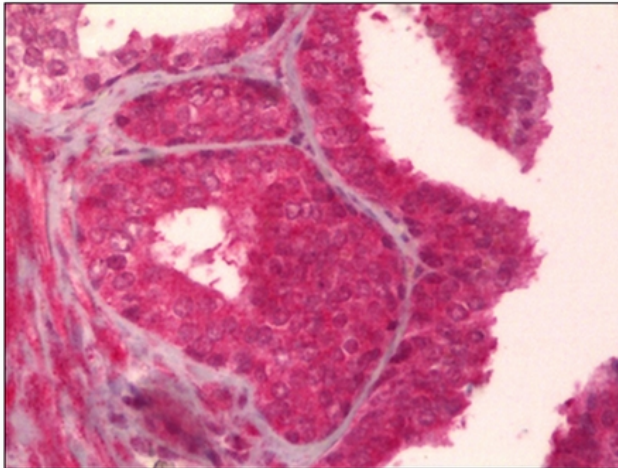
TIE1/TIE (tyrosine kinase with Ig and EGF homology domains 1) and TIE2/Tek define a new class of the receptor tyrosine kinase (RTK) subfamily with unique structural characteristics: two immunoglobulin like domains flanking three epidermal growth factor (EGF) like domains followed by three fibronectin type III like repeats in the extracellular region and a split tyrosine kinase domain in the cytoplasmic region. Human TIE1 cDNA encodes a 1138 amino acid residue precursor protein with a putative signal peptide, an extracellular domain, and a cytoplasmic domain. TIE1 and TIE2, expressed primarily on endothelial and hematopoietic progenitor cells, play important roles in angiogenesis, vasculogenesis, and hematopoiesis. In developing vascular endothelial cells, TIE1 and TIE2 are specifically expressed. Two ligands that bind TIE have been identified, angiopoietin 1 and angiopoietin 2. Based on gene targeting studies, the in vivo functions of TIE1 are related to endothelial cell differentiation. TIE1 is a receptor that is implicated in vessel maturation and angiogenesis. TIE1 contains immunoglobulin-like loops and epidermal growth factor (EGF) homology domains.

Synonyms:

TIE, Tie-1

Protein Families:

Druggable Genome, Protein Kinase, Transmembrane

Product images:

Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)