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TIE1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1914a

Product Information

Application	WB, IHC, E
Primary Accession	P35590
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8D12B10
Isotype	IgG1
Calculated MW	125090
Description	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.r
Immunogen	Purified recombinant fragment of human TIE1 (AA: 385-607) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	7075
Other Names	Tyrosine-protein kinase receptor Tie-1, 2.7.10.1, TIE1, TIE
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TIE1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TIE1
Synonyms	TIE

Function	Transmembrane tyrosine-protein kinase that may modulate TEK/TIE2 activity and contribute to the regulation of angiogenesis.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Specifically expressed in developing vascular endothelial cells.

Background

This gene is a classical cadherin from the cadherin superfamily and is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, the protein may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. An alternative splice variant has been described but its full length sequence has not been determined. ; ;

References

1. Int J Oncol. 2007 Oct;31(4):893-7.r2. Cancer. 2002 Mar 1;94(5):1517-21.r

Images

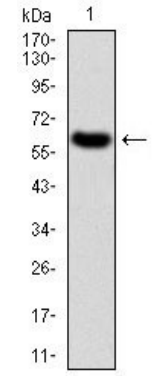


Figure 1: Western blot analysis using TIE1 mAb against human TIE1 (AA: 385-607) recombinant protein. (Expected MW is 50.6 kDa)

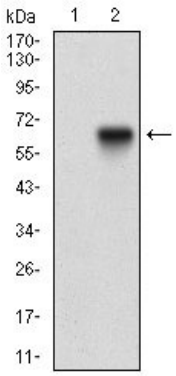
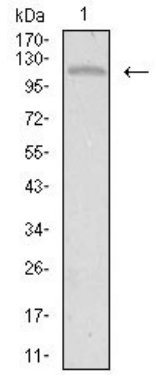


Figure 2: Western blot analysis using TIE1 mAb against HEK293 (1) and TIE1 (AA: 385-607)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 3: Western blot analysis using TIE1 mouse mAb against HepG2 cell lysate.



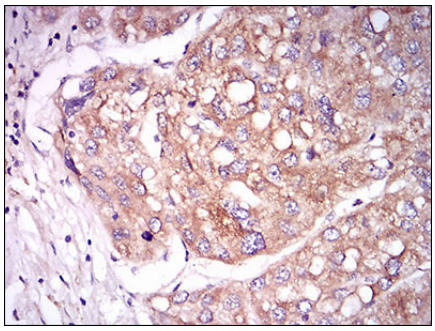


Figure 4: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using TIE1 mouse mAb with DAB staining.