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TIE1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1918a

Product Information

Application	WB, IHC, E
Primary Accession	P35590
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8D12D2
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.
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 locus encodes the transforming growth factor (TGF)-beta type III receptor. The encoded receptor is a membrane proteoglycan that often functions as a co-receptor with other TGF-beta receptor superfamily members. Ectodomain shedding produces soluble TGFBR3, which may inhibit TGFB signaling. Decreased expression of this receptor has been observed in various cancers. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. ; ; ;

References

1. Int J Oncol. 2007 Oct;31(4):893-7. 2. Cancer. 2002 Mar 1;94(5):1517-21.

Images

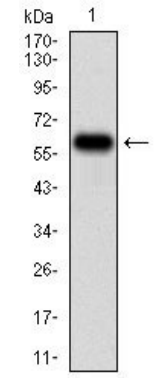

Figure 1: Western blot analysis using TIE1 mAb against human TIE1 (AA: 385-607) recombinant protein. (Expected MW is 50.6 kDa)

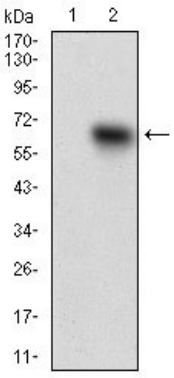

Figure 2: Western blot analysis using TIE1 mAb against HEK293 (1) and TIE1 (AA: 385-607)-hIgGFc transfected HEK293 (2) cell lysate.

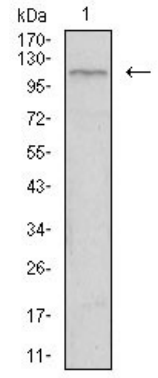

Figure 3: Western blot analysis using TIE1 mouse mAb against HepG2 cell lysate.

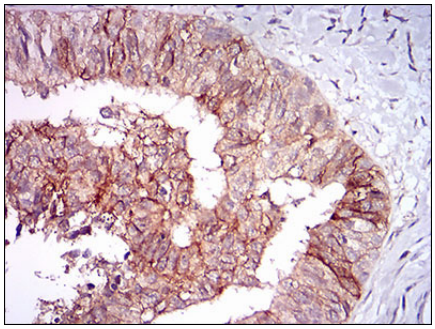

Figure 4: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using TIE1 mouse mAb with DAB staining.

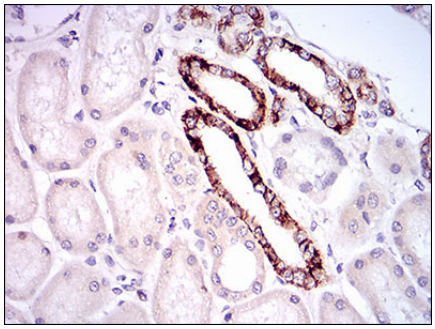

Figure 5: Immunohistochemical analysis of paraffin-embedded kidney tissues using TIE1 mouse mAb with DAB staining.