

Anti-TIE1 Antibody (6Y648)

Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6Y648
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of human TIE1 in human stomach carcinoma with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).
	2. Immunochemical staining of human TIE1 in human placenta with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).
	3. Immunochemical staining of human TIE1 in human liver(cirrhosis) with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).
Application:	ELISA(Det),IHC-P
Recommended	IHC-P: 1:50-1:200; ELISA(Det): 1:1000-1:10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human Tie1 Protein (TMPY-01910)
Antigen Species:	Human
Synonyms:	TIE;JTK14;tyrosine kinase with immunoglobulin-like and EGF-like domains 1
Biology Area:	Receptor Tyrosine Kinases (RTKs)

Research Background

Tyrosine kinase with immunoglobulin-like and EGF-like domains 1 also known as Tie1 is an angiopoietin receptor and is an orphan receptor tyrosine kinase that is expressed almost exclusively in endothelial cells and that is required for normal embryonic vascular development. The receptor tyrosine kinase Tie1 is expressed primarily in vascular endothelial cells. The receptor has also been detected in epithelial tumours in breast, thyroid and gastric cancers and in tumour cell lines where it appears as a 45 kDa truncated receptor fragment. Tie1 promotes endothelial cell survival, but other studies have suggested that the Tie1 kinase has little to no activity. Embryos deficient in Tie1 failed to establish structural integrity of vascular endothelial cells, resulting in oedema and subsequently localized haemorrhage. Tie1 is significantly higher in human aortic endothelial cells than in human umbilical vein endothelial cells. Additionally, attachment of cells of monocytic lineage to endothelial cells is also enhanced by Tie1 expression. Collectively Tie1 has a proinflammatory property and may play a role in endothelial inflammatory diseases such as atherosclerosis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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