SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-TIE1/AF647 Conjugated antibody

Catalog Number: SL1334R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-TIE1/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human Tie1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat)
Background:	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 (EFG) 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. Human TIE1/Fc, a disulfide linked homodimeric protein, has a calculated molecular mass of approximately 107 kDa. Due to glycosylation, the protein migrates to approximately 160 kDa in SDS PAGE under reducing conditions. 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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	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. The receptor tyrosine kinase TIE also plays a role in the survival and integrity of the endothelium. **Function:** Transmembrane tyrosine-protein kinase that may modulate TEK/TIE2 activity and contribute to the regulation of angiogenesis. **Subunit:** Heterodimer with TEK/TIE2. **Subcellular Location:** Cell membrane; Single-pass type I membrane protein. **Tissue Specificity:** Specifically expressed in developing vascular endothelial cells. **Post-translational modifications:** Phosphorylated on tyrosine residues in response to ANGPT1, most likely by TEK/TIE2. **Similarity:** Belongs to the protein kinase superfamily. Tyr protein kinase family. Tie subfamily. Contains 3 EGF-like domains. Contains 3 fibronectin type-III domains. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 280941 Cow **Entrez Gene:** 7075 Human **Entrez Gene:** 21846 Mouse **Entrez Gene:** 89806 Rat Omim: 600222 Human **SwissProt:** Q06805 Cow **SwissProt:** P35590 Human **SwissProt:** Q06806 Mouse **Unigene:** 78824 Human **Unigene:** 4345 Mouse **Unigene:** 13171 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Angiopoietin-1 receptor, also known as epithelial growth factor-like domain tyrosine kinase 1 or endothelial tyrosine kinase receptor,Tie1It is expressed in vascular endothelial cell, glandular epithelial cells and mesenchymal cells, and is mainly localized in the cytoplasm.