bs-1334R **[Primary Antibody]**

TIE1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7075 **SWISS:** P35590

Target: TIE1

Immunogen: KLH conjugated synthetic peptide derived from human Tie1: 851-1000/1138.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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. 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.

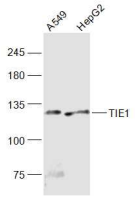
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human (predicted: Mouse, Rat)

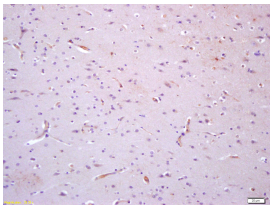
Predicted MW.: 123 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: A549(Human) Cell Lysate at 30 ug HepG2(Human) Cell Lysate at 30 ug Primary: Anti-TIE1 (bs-1334R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 123 kD Observed band size: 123 kD



Tissue/cell: human brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-TIE1 Polyclonal Antibody, Unconjugated(bs-1334R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=5.57]** Zhang C et al. Superparamagnetic iron oxide (SPIO) nanoparticles labeled endothelial progenitor cells (EPCs) administration inhibited heterotopic ossification in rats. Nanomedicine. 2019 Aug 7;21:102078. IHC,WB ;Rat. 31400573
- **[IF=3.9]** Gong Zhenqi. et al. Identification of the Expression of TIE1 and Its Mediated Immunosuppression in Gastric Cancer. J CANCER. 2024 Mar;15(10):2994-3009 IHC ;Human. 10.7150/jca.90891