Product datasheet

Anti-TIE2/TEK Antibody

Catalog Number: *PB0179*

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Basic Information

Product Name	Anti-TIE2/TEK Antibody
Gene Name	TEK
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human TIE2 recombinant protein (Position: Q641-I830). Human TIE2 shares 91% amino acid (aa) sequence identity with mouse TIE2.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	160KD
Dilution Ratios	Western blot(WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

TIE2, also known as TEK tyrosine kinase, TIE2 gene is mapped to 9p21.2. This gene encodes a receptor that belongs to the protein tyrosine kinase Tie2 family. The encoded protein possesses a unique extracellular region that contains two immunoglobulin-like domains, three epidermal growth factor (EGF)-like domains and three fibronectin type III repeats. The ligand angiopoietin-1 binds to this receptor and mediates a signaling pathway that functions in embryonic vascular development. Immunoblotting showed that TIE2 expression was increased by thyroid-stimulating hormone and agents that increased intracellular cAMP. HSCs expressing the receptor tyrosine kinase TIE2 are quiescent and antiapoptotic and comprise a side population of HSCs that adhere to osteoblasts in the bone marrow niche.

Selected Validation Data

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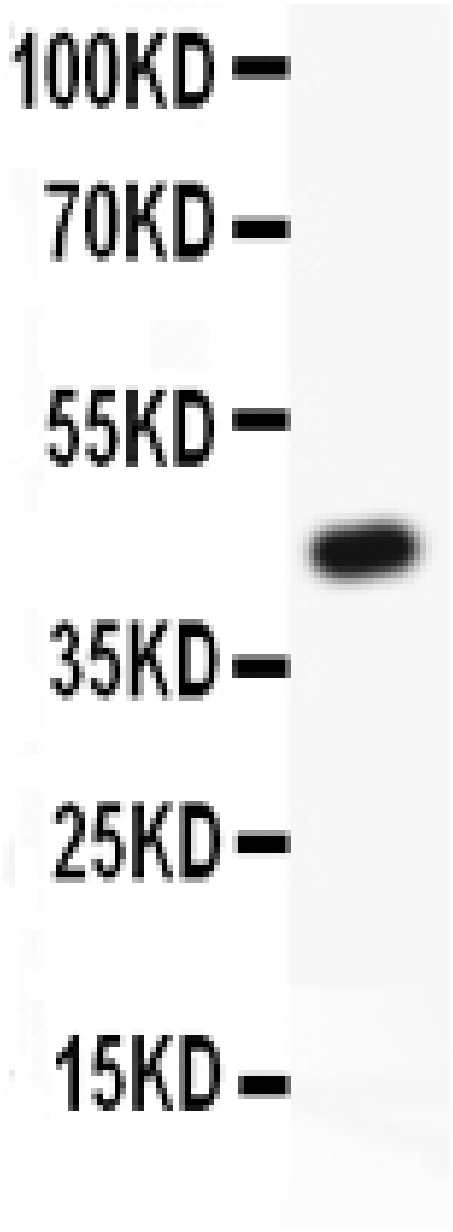

Figure 1. Western blot analysis of Anti-TEK antibody (PB0179). The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Recombinant human TIE2 protein 0.5ng,Use rabbit Anti-TEK 1:1000, probed with a goat Anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for TEK at approximately 47KD. The expected band size for TEK is at 47KD.