

Product datasheet for **AP31727PU-L**

TIE2 (TEK) Rabbit Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | Western Blot: 2-5 µg/ml. |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Highly pure (>95%) recombinant Human soluble TIE-2 (Thr19-Lys745) derived from Insect cells. |
| Specificity: | Recognizes TIE-2 (CD202b/TEK) |
| Formulation: | PBS |
| Reconstitution Method: | Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml. |
| Purification: | Protein A Chromatography |
| Conjugation: | Unconjugated |
| Storage: | The lyophilized antibody is stable at RT for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C. Avoid repeated freeze-thaw cycles! |
| Gene Name: | TEK receptor tyrosine kinase |
| Database Link: | Entrez Gene 21687 Mouse Entrez Gene 7010 Human Q02763 |



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Background:

TIE-1 (tyrosine kinase with Ig and EGF homology domains 1) and TIE-2/TEK comprise a receptor tyrosine kinase (RTK) subfamily with unique structural characteristics: two immunoglobulin-like domains flanking three epidermal growth factor (EGF)-like domains and followed by three fibronectin type III-like repeats in the extracellular region and a split tyrosine kinase domain in the cytoplasmic region.

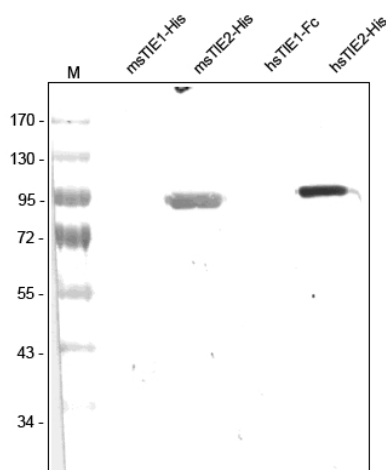
These receptors are expressed primarily on endothelial and hematopoietic progenitor cells and play critical roles in angiogenesis, vasculogenesis and hematopoiesis. Human TIE-2 cDNA encodes a 1124 amino acid (aa) residue precursor protein with an 18 residue putative signal peptide, a 727 residue extracellular domain and a 354 residue cytoplasmic domain. Two ligands, angiopoietin-1 (Ang1) and angiopoietin-2 (Ang2), which bind TIE-2 with high affinity have been identified. Ang2 has been reported to act as an antagonist for Ang1. Mice engineered to overexpress Ang2 or to lack Ang1 or TIE-2 display similar angiogenic defects.

Synonyms:

TIE2, TIE-2, Angiopoietin-1 receptor, p140 TEK

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

Product images:


Western analysis of recombinant Human and Mouse sTIE-1 and sTIE-2 using a Polyclonal antibody directed against Human recombinant sTIE-2. There is a strong cross reactivity with Mouse sTIE-2 but not with Human and Mouse sTIE-1 visible.