



Anti-mouse TIE-2

20140702BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

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|--------------------|----------------------------|
| Cat.-no.: | 103-PA111 |
| Size: | 200 µg |
| Lot. No.: | According to product label |
| Country of origin: | Germany |

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>95%) recombinant mouse soluble TIE-2 (Ala23-Ala737) produced in insect cells.

Target Background

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| Synonyms: | Endothelial tyrosine kinase, Tyrosine kinase with Ig and EGF homology domains-2, CD202b |
|------------------|---|

Recombinant mouse soluble TIE-2 was fused with a 6x His-tag at the C-terminus. The soluble receptor protein consists of the full extracellular domain (Ala23-Ala737). Mouse sTIE-2 monomer has a calculated molecular mass of approximately 79,86 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 95 kDa protein in SDS-PAGE under reducing conditions. 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 defects.

References

- Partanen J and DJ Dumont (1999) Curr Top Microbiol Immunol 237:159.
- Takakura N et al, (1998) Immunity 9:677.
- Procopio W et al, (1999) J Biol Chem 274:30196.

Database References Antigen

| | |
|------------------------|-----------|
| Protein RefSeq: | NP_038718 |
| Uniprot ID: | Q02858 |
| mRNA RefSeq: | NM_013690 |

Product Specifications

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|---------------------------|--|
| Species reactivity | mouse |
| Clone/Ab feature | Rabbit IgG |
| Cross reactivity | (human) |
| Host | rabbit |
| Clonality | polyclonal |
| Purification | Protein A purified |
| Immunogen | Recombinant mouse sTIE-2 (RT Cat# S01-M44) |
| Formulation | lyophilized |
| Buffer | PBS |

Stability: The lyophilized antibody is stable at room temperature 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.

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

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|----------------------|------------------|
| Western Blot: | Use at 2-5 µg/ml |
| FACS: | Use at 1-5 µg/ml |

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Handling/Applications

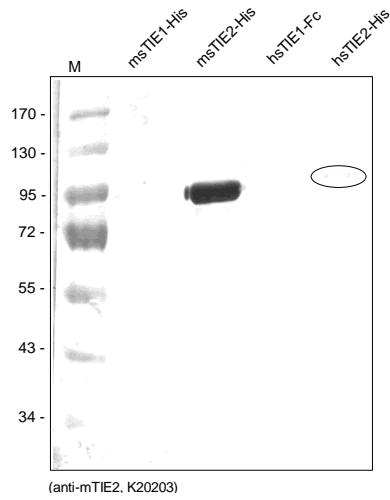


Figure 1. Western analysis of recombinant human and mouse sTIE-1 and sTIE-2 with a polyclonal antibody directed against mouse recombinant sTIE-2. There is a very weak cross reactivity with human sTIE-2 but not with human and mouse sTIE-1 visible.

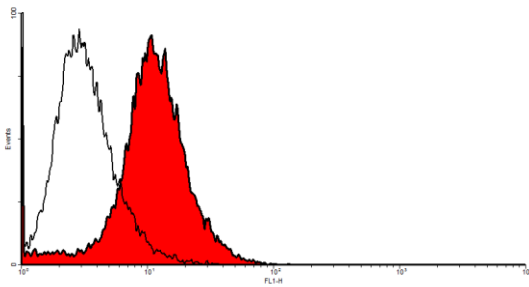


Figure 2. FACS analysis with primary mouse endothelial cells (SnoMec).