

## Mouse anti-Human Tie-1 Monoclonal Antibody | anti-Tie1 antibody

Anti-Tie-1 Antibody, Mouse Monoclonal

|                               |                      |                            |                                                    |
|-------------------------------|----------------------|----------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA254974</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA</b> |
|-------------------------------|----------------------|----------------------------|----------------------------------------------------|

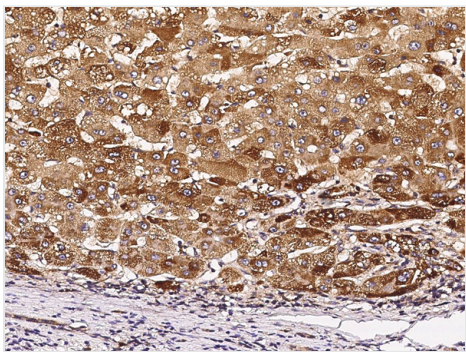
### PRODUCT SYNONYMS

Tie-1; Monoclonal Antibody; Anti-Tie-1 Antibody; Mouse Monoclonal; Tie1 Antibody; Mouse MAb; tyrosine kinase with immunoglobulin-like and EGF-like domains 1; Anti-JTK14 Antibody; Anti-TIE Antibody; anti-Tie1 antibody

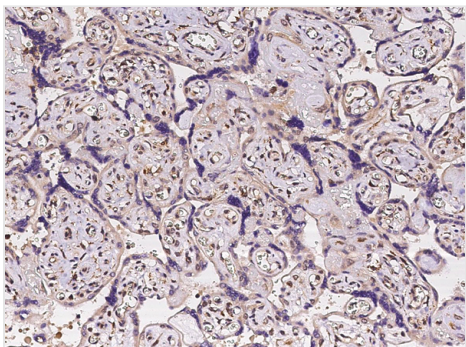
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                            |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                      |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                      |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                 |
| Isotype                                        | Mouse IgG2b                                                                                                                                                                                                                                                                                |
| Clone Number                                   | 8D2D2                                                                                                                                                                                                                                                                                      |
| Specificity                                    | Human Tie1.<br>No cross-reactivity in ELISA with Human Tie2, Human cell lysate (293 cell line)                                                                                                                                                                                             |
| Purity/Purification                            | Protein A                                                                                                                                                                                                                                                                                  |
| Form/Format                                    | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                                     |
| Applicable Applications for anti-Tie1 antibody | IHC (Immunohistochemistry), ELISA                                                                                                                                                                                                                                                          |
| Immunogen                                      | Recombinant Human Tie1 Protein                                                                                                                                                                                                                                                             |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                                               |
| Preparation                                    | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human Tie1 (rh Tie1). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.                      |

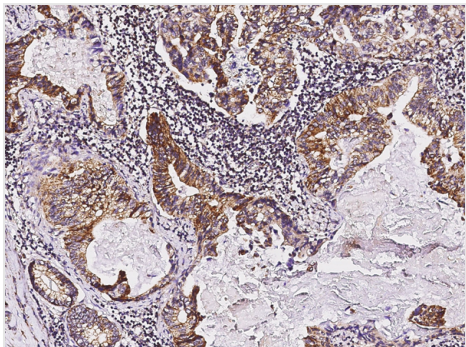
IMAGES



**IHC (Immunohistochemistry)**  
Immunochemical staining of human TIE1 in human liver(cirrhosis) with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).



**IHC (Immunohistochemistry)**  
Immunochemical staining of human TIE1 in human placenta with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).



**IHC (Immunohistochemistry)**  
Immunochemical staining of human TIE1 in human stomach carcinoma with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-Tie1 antibody</b> | Tyrosine kinase with immunoglobulin-like and EGF-like domains 1 also known as Tie1 is an angiopoietin receptor and is an orphan receptor tyrosine kinase that is expressed almost exclusively in endothelial cells and that is required for normal embryonic vascular development. The receptor tyrosine kinase Tie1 is expressed primarily in vascular endothelial cells. The receptor has also been detected in epithelial tumours in breast, thyroid and gastric cancers and in tumour cell lines where it appears as a 45 kDa truncated receptor fragment. Tie1 promotes endothelial cell survival, but other studies have suggested that the Tie1 kinase has little to no activity. Embryos deficient in Tie1 failed to establish structural integrity of vascular endothelial cells, resulting in oedema and subsequently localized haemorrhage. Tie1 is significantly higher in human aortic endothelial cells than in human umbilical vein endothelial cells. Additionally, attachment of cells of monocytic lineage to endothelial cells is also enhanced by Tie1 expression. Collectively Tie1 has a proinflammatory property and may play a role in endothelial inflammatory diseases such as atherosclerosis. |
| <b>Product Categories/Family for anti-Tie1 antibody</b>   | Receptor Tyrosine Kinases (RTKs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>References</b>                                         | Chan B, et al. (2008) Receptor tyrosine kinase Tie-1 overexpression in endothelial cells upregulates adhesion molecules. Biochem Biophys Res Commun. 371(3): 475-9.Sato TN, et al. (1995) Distinct roles of the receptor tyrosine kinases Tie-1 and Tie-2 in blood vessel formation. Nature. 376(6535): 70-4.Rees KA, et al. (2007) The receptor tyrosine kinase Tie1 is expressed and activated in epithelial tumour cell lines. Int J Oncol. 31(4): 893-7.Kontos CD, et al. (2002) The endothelial receptor tyrosine kinase Tie1 activates phosphatidylinositol 3-kinase and Akt to inhibit apoptosis. Mol Cell Biol. 22(6): 1704-13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

NCBI AND UNIPROT INFORMATION

|                    |         |
|--------------------|---------|
| <b>NCBI GI #</b>   | 4885631 |
| <b>NCBI GeneID</b> | 7075    |

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NCBI Accession #                 | <a href="#">NP_005415.1</a>                                                                                                |
| NCBI GenBank Nucleotide #        | <a href="#">NM_005424.4</a>                                                                                                |
| UniProt Accession #              | <a href="#">P35590</a>                                                                                                     |
| Molecular Weight                 | 125,090 Da                                                                                                                 |
| NCBI Official Full Name          | tyrosine-protein kinase receptor Tie-1 isoform 1                                                                           |
| NCBI Official Synonym Full Names | tyrosine kinase with immunoglobulin-like and EGF-like domains 1                                                            |
| NCBI Official Symbol             | TIE1                                                                                                                       |
| NCBI Official Synonym Symbols    | TIE; JTK14                                                                                                                 |
| NCBI Protein Information         | tyrosine-protein kinase receptor Tie-1; tyrosine kinase with immunoglobulin and epidermal growth factor homology domains 1 |
| UniProt Protein Name             | Tyrosine-protein kinase receptor Tie-1                                                                                     |
| UniProt Gene Name                | <b>TIE1</b>                                                                                                                |
| UniProt Synonym Gene Names       | TIE                                                                                                                        |
| UniProt Entry Name               | TIE1_HUMAN                                                                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/tie-1-antibody-clone-8d2d2-immunohistochemistry-elisa/254974>