IBL Data Sheet

Code No. 18541

Anti-Human
Tie-1 (N1125) Rabbit IgG Affinity Purify

Volume : 100 µg

Tie : **Tyrosin Kinase with Ig and EGF Homology Domain**

Introduction : TIE is a new receptor-type tyrosine kinase that was cloned from K562, a chronic myelocytic leukemia cell line. Its molecular weight is 117 kDa and its structure begins with an immunoglobulin-like domain from the extracellular N terminal, continues to 3 EGF-like domains, another immunoglobulin-like domain, 3 fibronectin III-like domains, a membrane-penetrating domain, 2 tyrosine kinase domains and a C-terminal domain. It has been reported that Tek molecules with a high homology (about 80%) have been cloned from the kinase domains. These molecules are believed to make up a Tie family. Tie-2 and a receptor type tyrosine kinase Tie-1 that is expressed specifically in endothelial cells are included in this Tie family. Among the *Tie-1* gene knockout mice, a vasculature is formed in a homozygote (-/-) but the mouse is likely to succumb to pulmonary edema. Thus it has been reported that the signal via Tie-1 is important in maintaining the vascular structure.

Antigen : Synthetic peptide ofa part of Human Tie-1

Purification : Purified with antigen peptide

Form : Lyophilized product from 1 % BSA in PBS containing 0.05% NaN_3

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

Stability : Lyophilized product, 5 years at 2 – 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after microwave pretreatment, by several techniques such as Avidin Biotin Complex (ABC) Method. The optimal concentration is about 5 - 10 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of 2 - 10 µg /mL.

Specificity : Confirmed by Tie/BaF3 Transfectant and HEL.

For research use only, not for use in diagnostic procedures.

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