IBL *Data Sheet*

Code No. 10353

Anti-Human
Tie-1 (9C1) Mouse IgG MoAb

Volume   :   100 µg

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.
This monoclonal antibody recognizes Tie-1 by W.B. and I.P. applications and it enables FACS analysis of Tie-1-expressing cells.

Antigen : Recombinant protein of extracellular domain of human Tie-1

Source : Mouse-Mouse hybridoma
(X63 - Ag 8.653 × BALB/c mouse spleen cells, supernatant)

Clone : 9C1   **Subclass** : IgG$_{2a}$

Purification : Affinity purified with protein A

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, then its concentration comes to 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 western blotting at 1 - 5 µg/mL.
: This antibody can be used for immunoprecipitation at 3 - 5 µg/test.
: This antibody can be used for FACS at 0.1 - 0.5 µg (per 1×10^5 cells).

Specificity : Confirmed by western blotting with HEL (leukemia) cell.