

Code No. 10369

**Anti-Human
TEK/Tie-2 (2A1) Mouse IgG MoAb**Volume : 100 µg

Introduction : TEK, also known as Tie-2 (Tyrosine kinase with Ig-like loops and Epidermal growth factor homology domains-2) and CD202b, is a 145 kDa receptor tyrosine kinase expressed on endothelial cells and hematopoietic cells. Its structure possesses an extracellular domain containing two immunoglobulin-like loops separated by three epidermal growth factor-like repeats that are connected to three fibronectin type III-like repeats, and it has a membrane-penetrating domain and two tyrosine kinase domains in the intracellular region.

As ligands, Angiopoietin (Ang)-1 and -4 induce phosphorylation of the receptor while Ang-2 and -3 appear to act as antagonists for its activation. This signaling pathway can regulate cellular adhesion to vascular endothelium and could be important for maintaining endothelial cell survival and integrity in adult blood vessels as well as tumor angiogenesis.

This monoclonal antibody recognizes TEK/Tie-2 by W.B. and I.P. applications and it enables FACS analysis of TEK/Tie-2-expressing cells. It has been confirmed that the addition of this antibody does not induce ligand-binding-dependent phosphorylation of TEK/Tie-2 and it may be used as a neutralizing antibody.

Antigen : Recombinant protein of extracellular domain of human TEK/Tie-2

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

Clone : 2A1 **Subclass** : IgG₁

Purification : Affinity purified with protein A

Form : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN₃

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 immunocytochemistry at 5 µg/mL.
: 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 1 - 5 µg (per 1×10⁵ cells).
: This antibody can be used for neutralization assay at 10 µg/mL against the phosphorylation induced by ligand-binding at 100 ng/mL.
* For neutralization assay, please request for the antibody without additives and sterilized.

Specificity : Confirmed by western blotting with HUVEC.

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