

**TIGIT monoclonal antibody**

Catalog: MB30046

Host: Mouse

Reactivity: Mouse

BackGround:

T-cell immunoreceptor with Ig and ITIM domains: Inhibitory receptor that plays a role in the modulation of immune responses. Suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells. Upon binding to its ligands PVR/CD155 or NECTIN2/CD112, which are expressed on antigen-presenting cells, sends inhibitory signals to the T-cell or NK cell. Mechanistically, interaction with ligand leads to phosphorylation of the cytoplasmic tail by Src family tyrosine kinases such as FYN or LCK, allowing subsequent binding to adapter GRB2 and SHIP1/INPP5D. In turn, inhibits PI3K and MAPK signaling cascades. In addition, associates with beta-arrestin-2/ARRB2 to recruit SHIP1/INPP5D that suppresses autoubiquitination of TRAF6 and subsequently inhibits NF-kappa-B signaling pathway. Also acts as a receptor for NECTIN4 to inhibit NK cell cytotoxicity

Product:

Mouse IgG1 kappa. 1mg/ml in PBS, pH 7.3, and 0.02% sodium azide.

Molecular Weight:

~27.0 kDa

Swiss-Prot:**Purification&Purity:**

The antibody was purified by affinity chromatography.

Applications:

IF/ICC (1/50 - 1/200), FC (1/500 - 1/2000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes mouse TIGIT

DATA:

Western blot analysis of PLC gamma 2 expression in A431 (A) whole cell lysates.

Immunofluorescent analysis of PLC gamma 2 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Flow cytometric analysis of HeLa cells using Anti-PLC gamma 2 Antibody (green) and negative control (red).

Note:

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

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