

## CD319 monoclonal antibody

Catalog: MB23146

Host: Mouse

Reactivity: Human, Mouse, Rat, Monkey, Rabbit

### Background:

Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. Isoform 1 mediates NK cell activation through a SH2D1A-independent extracellular signal-regulated ERK-mediated pathway (PubMed:11698418). Positively regulates NK cell functions by a mechanism dependent on phosphorylated SH2D1B. Downstream signaling implicates PLCG1, PLCG2 and PI3K (PubMed:16339536). In addition to heterotypic NK cells-target cells interactions also homotypic interactions between NK cells may contribute to activation. However, in the absence of SH2D1B, inhibits NK cell function. Acts also inhibitory in T-cells (By similarity). May play a role in lymphocyte adhesion (PubMed:11802771). In LPS-activated monocytes negatively regulates production of proinflammatory cytokines (PubMed:23695528).

### Product:

Purified antibody in PBS with 0.05% sodium azide

### Molecular Weight:

37.4kda

### Swiss-Prot:

Q9NQ25

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1/500 - 1/2000 IHC:1/100 - 1/500 FC:1/200 - 1/400

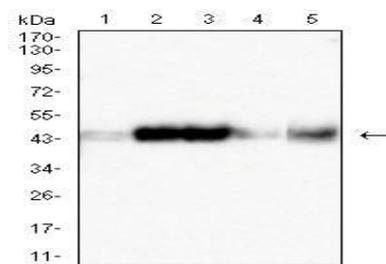
### Storage&Stability:

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

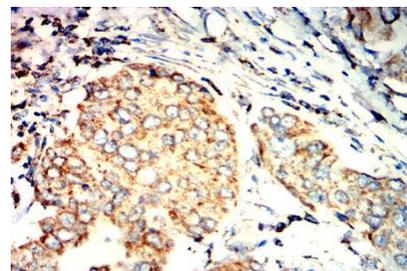
### Isotype:

Mouse IgG1

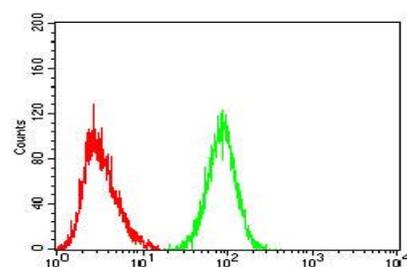
### DATA:



Western blot analysis using CD319 mouse mAb against K562 (1), HL-60 (2), Ramos (3), Jurkat (4), and THP-1 (5) cell lysate.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissues using CD319 mouse mAb with DAB staining.



Flow cytometric analysis of K562 cells using CD319 mouse mAb (green) and negative control (red).

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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

Note:

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

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