Data Sheet (Cat.No.TMAH-01096)

Anti-SLAMF7 Antibody (8I592)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8I592
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. IHC image of TMAH-01096 diluted at 1:200 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB. 2. Overlay Peak curve showing A549 cells surface stained with TMAH-01096 (red line) at 1:200. Then 10% normal goat serum was Incubated to block non-specific protein-protein interactions followed by the antibody (1μg/1*10^6 cells) for 45 min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1μg/1*10^6 cells) used under the same conditions. Acquisition of >10,023 events was performed.
Application:	ELISA,FCM,IHC
Recommended	IHC:1:20-1:200; FCM:1:20-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human SLAMF7 Protein
Antigen Species:	Human
Gene ID:	57823
Uniprot ID:	Q9NQ25
Synonyms:	SLAMF7;CRACC;19A;FOAP-12;CD319;CS1;CD2 subset 1;Novel Ly9
Biology Area:	Immunology

Research 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. Positively regulates NK cell functions by a mechanism dependent on phosphorylated SH2D1B. Downstream signaling implicates PLCG1, PLCG2 and PI3K. 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. May play a role in lymphocyte adhesion. In LPS-activated monocytes negatively regulates production of proinflammatory cytokines. Isoform 3 does not mediate any NK cell activation.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481