

TotalSeq™-C0930 anti-mouse Ly108 Antibody

Catalog# / Size	134613 / 10 µg
Clone	330-AJ
Regulatory Status	RUO
Other Names	SLAM family receptor, SLAMF6, TCOM, SF2000, KALI, SF-3, NTBA, NTB-A, NK-T-B antigen
Isotype	Mouse IgG2a, κ
Barcode Sequence	CGATTCTTTGCGAGT
Description	<p>Mouse Ly108, also known as SLAMF6 and NTB-A (NK cell, T cell, B cell antigen), is one of the members in The Signaling Lymphocytic Activation Molecule (SLAM) family of immune receptors. It is expressed on T cells, B cells, macrophages, dendritic cells, NK cells, and granulocytes. Homophilic interaction of Ly108 is involved in augmenting cytotoxicity of NK cells. Ly108 has been shown to function on NK cells by augmenting cytotoxicity. It was reported that Ly108 plays an important role in CD4⁺ T cell responses and innate immunity to bacteria and parasites. In a mouse with a targeted disruption of the Ly108 gene, CD4⁺ T cells and innate responses are defective. SLAM family of receptors has been implicated in the pathophysiology of autoimmunity. For instance, Ly108 is strongly linked to lupus susceptibility in mice. Ly108 may censor self-reactive B cells as a potential regulator of tolerance checkpoints, safeguarding against autoimmunity. Therefore, Ly108 serves as a regulator of both innate and adaptive immune responses.</p>

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Thymocytes
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-C oligomer under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Additional Product Notes	TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required.

Please contact [technical support](#) for more information, or visit biolegend.com/totalseq.

The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

Application References

(PubMed link indicates BioLegend citation)

RRID

AB_2890692 (BioLegend Cat. No. 134613)

Antigen Details

Structure	A glycoprotein of the signaling lymphocytic activation molecule family of cell surface receptor. It is a novel member of the CD2 subfamily of the Ig superfamily.
Distribution	Expressed on T cells, B cells, macrophages, dendritic cells, NK cells, and granulocytes.
Function	Play an important role in CD4 ⁺ T cell responses, innate immunity to bacteria and parasites, and NK cell function.
Ligand/Receptor	Ly108
Cell Type	B cells, Dendritic cells, Granulocytes, Macrophages, NK cells, T cells
Biology Area	Immunology, Innate Immunity
Antigen References	<ol style="list-style-type: none">1. Howie D, <i>et al.</i> 2005. <i>J. Immunology</i>. 174 (10):59312. Kumar KR, <i>et al.</i> 2006. <i>Science</i>. 312(5780):16653. Zhong MC, <i>et al.</i> 2008. <i>J. Biol. Chem.</i> 283 (28):192554. Peck SR <i>et al.</i> 2000. <i>Immunogenetics</i>. 52:63
Gene ID	30925

Related Protocols

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

Other Formats

PE anti-mouse Ly108, Pacific Blue™ anti-mouse Ly108, APC anti-mouse Ly108, TotalSeq™-A0930 anti-mouse Ly108 Antibody, TotalSeq™-C0930 anti-mouse Ly108 Antibody, TotalSeq™-B0930 anti-mouse Ly108 Antibody

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