

TotalSeq™-B0830 anti-human CD319 (CRACC) Antibody

Catalog# / Size	331825 / 10 µg
Clone	162.1
Regulatory Status	RUO
Other Names	CD2 like receptor activating cytotoxic cells, CD319, CS1, 19A24, SLAMF7
Isotype	Mouse IgG2b, κ
Barcode Sequence	AGTATGCCATGTCTT
Description	CD319 is a single-pass type I transmembrane glycoprotein, expressed on NK cells, subsets of mature dendritic cells, activated B cells, and cytotoxic lymphocytes, but not in promyelocytic, B or T cell lines. Expression is highest in the spleen, lymph nodes, and peripheral blood leukocytes, and lowest in bone marrow. Additionally, it is expressed in the small intestine, stomach, appendix, lung, and trachea. CD319 is tyrosine phosphorylated in activated NK cells and is associated with 19 and 39 kD proteins. CD319 has homology with the CD2 family of receptors within the Ig superfamily. Some of the CD2 members stimulate cytotoxicity through the CD319 associated protein.

Product Details

Verified Reactivity	Human
Reported Reactivity	Cynomolgus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	CRACC-Human IgG1 fusion protein
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™-B 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	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™-B antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions .

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.

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.

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 .
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The barcode flanking sequences are GTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCTNNNNNNNNNN (PCR handle), and NNNNNNNNGCTTTAAGGCCGGTCCTAGC*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)

1. Bouchon A, *et al.* 2001. *J. Immunol.* 167:551721.
2. Tassi I and Colonna M. 2005. *J. Immunol.* 175:79968002.
3. Veillette A. 2006. *Immunol. Rev.* 214:2234.

RRID AB_2888698 (BioLegend Cat. No. 331825)

Antigen Details

Structure	Ig superfamily, 66 kD.
Distribution	NK cells, subsets of mature dendritic cells, activated B cells, cytotoxic lymphocytes but not in promyelocytic, B or T cell lines.
Function	Regulates T cell and NK cell functions.
Cell Type	B cells, Dendritic cells, Lymphocytes, NK cells, Tregs
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none">1. Bouchon A, <i>et al.</i> 2001. <i>J. Immunol.</i> 167:551721.2. Tassi I and Colonna M. 2005. <i>J. Immunol.</i> 175:79968002.3. Veillette A. 2006. <i>Immunol. Rev.</i> 214:2234.
Gene ID	57823

Related Protocols

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

Other Formats

Purified anti-human CD319 (CRACC), PE anti-human CD319 (CRACC), PerCP/Cyanine5.5 anti-human CD319 (CRACC), APC anti-human CD319 (CRACC), PE/Dazzle™ 594 anti-human CD319 (CRACC), PE/Cyanine7 anti-human CD319 (CRACC), FITC anti-human CD319 (CRACC), Alexa Fluor® 647 anti-human CD319 (CRACC), TotalSeq™-A0830 anti-human CD319 (CRACC), TotalSeq™-C0830 anti-human CD319 (CRACC), TotalSeq™-B0830 anti-human CD319 (CRACC)

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