

PE/Fire™ 744 anti-human CD319 (CRACC) Antibody

Catalog# / Size	331829 / 25 tests 331830 / 100 tests
Clone	162.1
Regulatory Status	RUO
Other Names	CD2 like receptor activating cytotoxic cells, CD319, CS1, 19A24, SLAMF7
Isotype	Mouse IgG2b, κ
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 BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 744 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool).
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages. * PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)

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_3717214 (BioLegend Cat. No. 331829)
AB_3717214 (BioLegend Cat. No. 331830)

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	1. Bouchon A, et al. 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

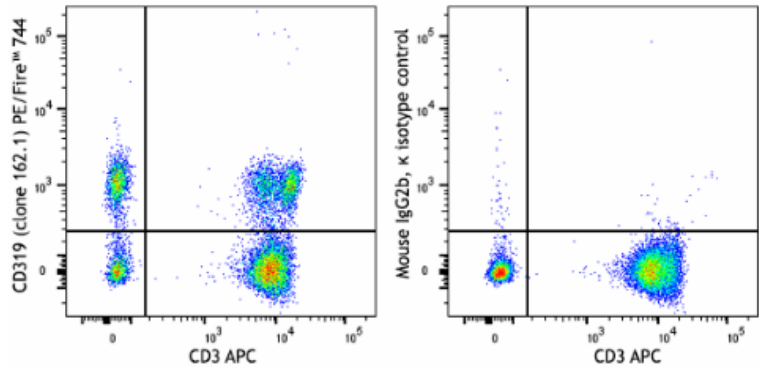
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PerCP/Fire™ 806 anti-human CD319 (CRACC), PE/Dazzle™ 594 anti-human CD319 (CRACC), FITC anti-human CD319 (CRACC), Alexa Fluor® 647 anti-human CD319 (CRACC), PE/Fire™ 744 anti-human CD319 (CRACC) Antibody, APC anti-human CD319 (CRACC), PE/Cyanine7 anti-human CD319 (CRACC), PerCP/Cyanine5.5 anti-human CD319 (CRACC), TotalSeq™-A0830 anti-human CD319 (CRACC), TotalSeq™-C0830 anti-human CD319 (CRACC), TotalSeq™-B0830 anti-human CD319 (CRACC), Spark PLUS UV395™ anti-human CD319 (CRACC) (Flexi-Fluor™), Purified anti-human CD319 (CRACC), PE anti-human CD319 (CRACC)

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone SK7) APC and anti-human CD319 (CRACC) (clone 162.1) PE/Fire™ 744 (left) or mouse IgG2b, κ PE/Fire™ 744 isotype control (right).

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