Purified anti-human CD161 (Maxpar® Ready) Antibody

Catalog# / Size	339919 / 100 µg
Clone	HP-3G10
Regulatory Status	RUO
Other Names	NKR-P1A
Isotype	Mouse IgG1, κ
Description	CD161 is a type II transmembrane glycoprotein, also known as NKR-P1A, that is expressed as a 40-44 kD homodimer. It is a member of the C-type lectin superfamily. CD161 is expressed on a majority of NK cells, NKT cells, and subsets of peripheral T cells and $CD3^+$ thymocytes. It has been reported that Th17 cells are a subpopulation of $CD4^+CD161^+CCR6^+$ cells. While the biological function of CD161 is not clear, it has been suggested to serve either as a stimulatory receptor or to inhibit NK cell-mediated cytotoxicity and cytokine production. LLT-1 (lectin-like transcript-1, also named as osteoclast inhibitory lectin or CLEC2D) is the ligand of CD161.

Product Details

Verified Reactivity	Human, Cynomolgus, Rhesus
Reported Reactivity	African Green, Baboon
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human NK cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and EDTA.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1.0 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested CyTOF® - Verified
Recommended Usage	This product is suitable for use with the Maxpar® Metal Labeling Kits. For metal labeling using Maxpar® Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar® Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar® User Guide when conjugating Maxpar® Ready antibodies.
Application Notes	Additional reported applications (for the relevant formats) include: inhibition of cytokine production and Western blotting under nonreducing conditions.
Additional Product Notes	Maxpar® is a registered trademark of Standard BioTools Inc.
Application References **(PubMed link indicates BioLegend citation)**	1. Gumß M, et al. 2004. *Blood* 104:3664. 2. Exley M, *et al.* 1998. *J. Exp. Med.* 188:867. 3. Marquez C, *et al.* 1998. *Blood* 91:2760.
Product Citations	1. Neidleman J, *et al.* 2020. Cell Rep Med. 100081:1. PubMed 2. Neidleman J, *et al.* 2021. Cell Rep. 36:109414. PubMed 3. Roussel M, *et al.* 2021. Cell Reports Medicine. 2(6):100291. PubMed 4. Georg P, *et al.* 2022. Cell. 185:493. PubMed
RRID	AB_2562836 (BioLegend Cat. No. 339919)

Antigen Details

Structure	Type II glycoprotein, 40-44 kD homodimer, C-type lectin superfamily
Distribution	NK cells, T subset, subset of $CD3^+$ thymocytes
Ligand/Receptor	LLT-1 (Lectin-like transcript-1)
Cell Type	NK cells, T cells, Thymocytes
Biology Area	Cell Biology, Immunology, Innate Immunity, Signal Transduction
Molecular Family	CD Molecules
Antigen References	1. Takahashi T, *et al.* 2006. *J. Immunol.* 176:211. 2. Cosmi L, *et al.* 2008. *J. Exp. Med.* 205:1903. 3. Aldemir H, *et al.* 2005. *J. Immunol.* 175:7791. 4. Rosen DB, *et al.* 2008. *J. Immunol.* 180:6508.
Gene ID	3820

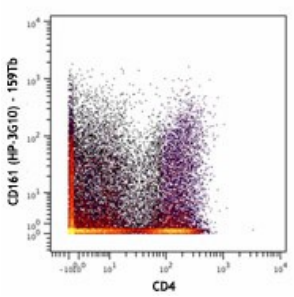
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

Brilliant Violet 510™ anti-human CD161, FITC anti-human CD161, Purified anti-human CD161, PE anti-human CD161, PerCP/Cyanine5.5 anti-human CD161, Alexa Fluor® 647 anti-human CD161, APC anti-human CD161, Brilliant Violet 421™ anti-human CD161, Brilliant Violet 605™ anti-human CD161, PE/Cyanine7 anti-human CD161, Alexa Fluor® 700 anti-human CD161, Purified anti-human CD161 (Maxpar® Ready), Alexa Fluor® 488 anti-human CD161, Pacific Blue™ anti-human CD161, APC/Cyanine7 anti-human CD161, Brilliant Violet 785™ anti-human CD161, Biotin anti-human CD161, PerCP anti-human CD161, PE/Dazzle™ 594 anti-human CD161, APC/Fire™ 750 anti-human CD161, TotalSeq™-A0149 anti-human CD161, TotalSeq™-C0149 anti-human CD161, TotalSeq™-B0149 anti-human CD161, PE/Cyanine5 anti-human CD161 Antibody, TotalSeq™-D0149 anti-human CD161, Spark Red™ 718 anti-human CD161

Product Data



Human PBMCs stained with 145Nd-anti-CD4 (RPA-T4) and 159Tb-anti-CD161 (HP-3G10). Lymphocytes are displayed in the analysis. Data provided by DVS Sciences.

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