

ARG65461 anti-CD161 antibody [HP-3G10]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [HP-3G10] recognizes CD161
Tested Reactivity	Hu, NHuPrm
Tested Application	CyTOF®-candidate, FACS, WB
Specificity	The clone HP-3G10 recognizes CD161, a type II transmembrane C-type lectin receptor, expressed on the plasma membrane of NK cells, dendritic cells, activated monocytes and a subset of T cells as a disulphide-linked homodimer.
Host	Mouse
Clonality	Monoclonal
Clone	HP-3G10
Isotype	IgG1
Target Name	CD161
Species	Human
Immunogen	human NK cells
Conjugation	Un-conjugated
Alternate Names	CLEC5B; CD antigen CD161; CD161; NKR-P1; NKR-P1A; Killer cell lectin-like receptor subfamily B member 1; NKRP1A; NKR; HNKRP-1a; Natural killer cell surface protein P1A; C-type lectin domain family 5 member B; hNKR-P1A

Application Instructions

Application table	Application	Dilution
	CyTOF®-candidate	Assay-dependent
	FACS	1 - 4 µg/ml
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

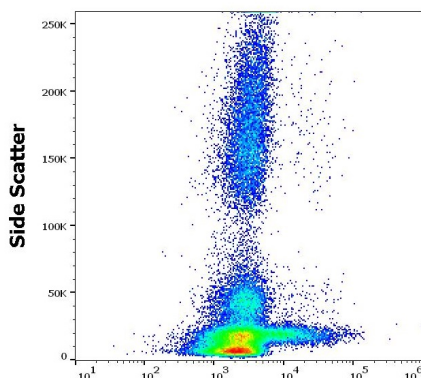
Form	Liquid
Purification	Purified from hybridoma culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

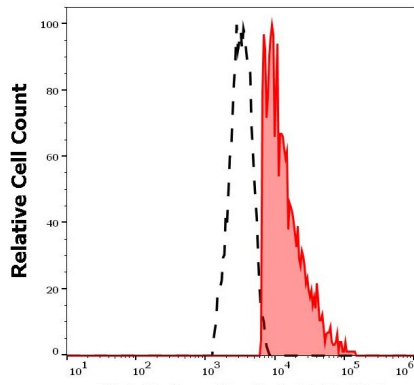
Database links	GeneID: 3820 Human Swiss-port # Q12918 Human
Gene Symbol	KLRB1
Gene Full Name	killer cell lectin-like receptor subfamily B, member 1
Background	CD161, also known as Nkrp1 (natural killer receptor protein 1) or Klrp1 (killer cell lectin-like receptor subfamily b member 1), is a disulphide-linked homodimeric receptor, which is involved in regulation of NK cell and NKT cell function. It is expressed on a majority of NK cells, NKT cells, and e.g. Th17 cells and CD3+ thymocytes. Although rat CD161 has three isoforms (a, b, c), the human CD161 is expressed as one isoform.
Function	Plays an inhibitory role on natural killer (NK) cells cytotoxicity. Activation results in specific acid sphingomyelinase/SMPD1 stimulation with subsequent marked elevation of intracellular ceramide. Activation also leads to AKT1/PKB and RPS6KA1/RSK1 kinases stimulation as well as markedly enhanced T-cell proliferation induced by anti-CD3. Acts as a lectin that binds to the terminal carbohydrate Gal-alpha(1,3)Gal epitope as well as to the N-acetyllactosamine epitope. Binds also to CLEC2D/LLT1 as a ligand and inhibits NK cell-mediated cytotoxicity as well as interferon-gamma secretion in target cells. [UniProt]
Highlight	Related products: CD161 antibodies; Anti-Mouse IgG secondary antibodies; Related news: CyTOF-candidate Antibodies
Research Area	Developmental Biology antibody; Immune System antibody
Calculated Mw	25 kDa
PTM	N-glycosylated. Contains sialic acid residues.

Images



ARG65461 anti-CD161 antibody [HP-3G10] FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG65461 anti-CD161 antibody [HP-3G10] at 4 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG65461 anti-CD161 antibody [HP-3G10] FACS image

Flow Cytometry: Separation of human CD161 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed). Human peripheral whole blood stained with ARG65461 anti-CD161 antibody [HP-3G10] at 4 $\mu\text{g}/\text{ml}$ dilution, followed by APC-conjugated Goat anti-Mouse antibody.