

For Research Use Only

KLRB1/CD161 Monoclonal antibody

Catalog Number: 67537-1-Ig **7 Publications**



Basic Information

Catalog Number: 67537-1-Ig	GenBank Accession Number: BC114516	Purification Method: Protein A purification
Size: 1500 µg/ml	GeneID (NCBI): 3820	CloneNo.: 3D8F5
Source: Mouse	ENSEMBL Gene ID: ENSG00000111796	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:2000-1:8000
Isotype: IgG1	UNIPROT ID: Q12918	
Immunogen Catalog Number: AG27117	Full Name: killer cell lectin-like receptor subfamily B, member 1	
	Calculated MW: 225 aa, 25 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	WB : human spleen tissue,
Species Specificity: Human	IHC : human tonsillitis tissue,
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

CD161, also known as KLRB1 or NKR-P1A, is a type II transmembrane C-type lectin-like receptor and is expressed on the cell membrane as disulfide-linked homodimer (PMID: 8077657). It is expressed by the majority of NK cells and subsets of peripheral T cells, including both CD4+ and CD8+ T cells, and is expressed preferentially on adult T cells with a "memory" antigenic phenotype (PMID: 8077657; 22566826). Expression of CD161 correlates with the cytotoxic function of CD16+ NK cells, and ligation of CD161 with its ligand LLT1 inhibits NK cell cytotoxicity and cytokine secretion (PMID: 29686665).

Notable Publications

Author	Pubmed ID	Journal	Application
Qianshan Hou	39507529	Front Immunol	IHC
Siwei Xu	38983163	J Thorac Dis	WB
Bingxin Liu	38806057	Cell Rep Med	IF

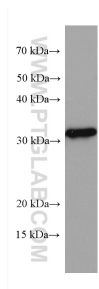
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

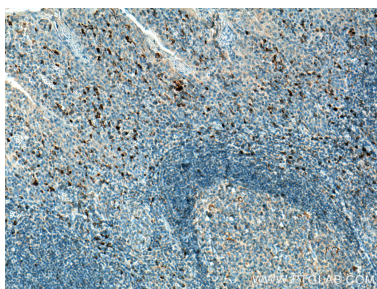
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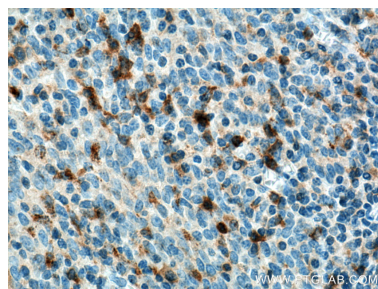
Selected Validation Data



human spleen tissue were subjected to SDS PAGE followed by western blot with 67537-1-Ig (KLRB1/CD161 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67537-1-Ig (KLRB1/CD161 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67537-1-Ig (KLRB1/CD161 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).