

## CD43 Monoclonal antibody

Catalog Number: 66224-1-Ig

## Basic Information

<b>Catalog Number:</b> 66224-1-Ig	<b>GenBank Accession Number:</b> BC012350	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 3300 ug/ml by Nanodrop and 2000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6693	<b>CloneNo.:</b> 2A11D6
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000197471	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:4000-1:16000 IF-P 1:50-1:500 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG2b	<b>UNIPROT ID:</b> P16150	
<b>Immunogen Catalog Number:</b> AG23595	<b>Full Name:</b> sialophorin	
	<b>Calculated MW:</b> 400 aa, 43 kDa	
	<b>Observed MW:</b> 115 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> Jurkat cells, K-562 cells
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human tonsillitis tissue, human appendicitis tissue, human colon tissue
	<b>IF-P :</b> human tonsillitis tissue,
	<b>IF/ICC :</b> Jurkat cells, human tonsillitis tissue

## Background Information

CD43, also named leukosialin, sialophorin, galactoglycoprotein, leukocyte sialoglycoprotein, SPN, and is a mucin-like type I transmembrane protein. In humans, it is expressed in haematopoietic cells, including T lymphocytes, monocytes, granulocytes, natural killer cells, platelets, and haematopoietic stem cells, with the exception of mature erythrocytes and B cell subpopulations. The unglycosylated form of CD43 migrates on SDS-PAGE with a molecular weight of 54 kDa (PMID: 2943740), whereas CD43 from different haematopoietic cell lines displays increased molecular weights since it is glycosylated with O-linked chains that differ in core structure and sialylation.

## 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.

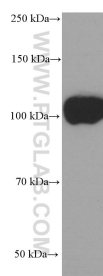
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

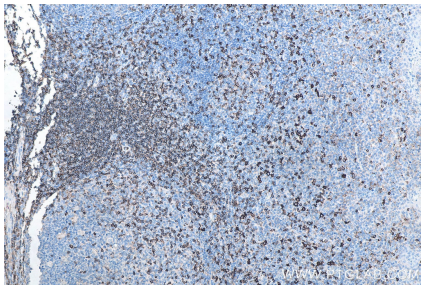
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
 E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

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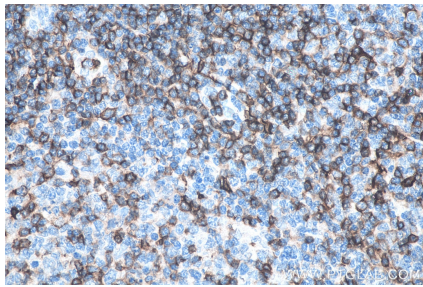
Selected Validation Data



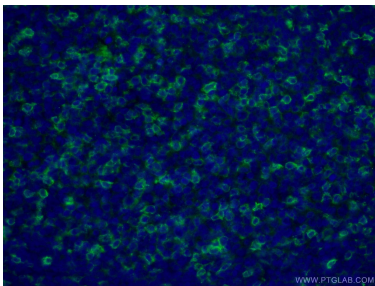
Jurkat cells were subjected to SDS PAGE followed by western blot with 66224-1-Ig (CD43 antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



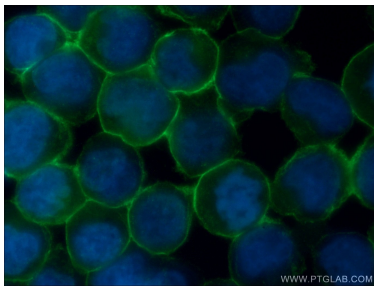
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66224-1-Ig (CD43 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



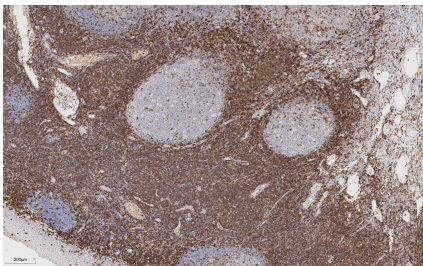
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66224-1-Ig (CD43 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66224-1-Ig (CD43 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using 66224-1-Ig (CD43 antibody) at dilution of 1:400 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66224-1-Ig (CD43 antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).