

For Research Use Only

# CD8a Monoclonal antibody

Catalog Number: 66868-1-Ig **190 Publications**



## Basic Information

<b>Catalog Number:</b> 66868-1-Ig	<b>GenBank Accession Number:</b> BC025715	<b>Purification Method:</b> Protein G purification
<b>Concentration:</b> 2000 ug/ml	<b>GeneID (NCBI):</b> 925	<b>CloneNo.:</b> 1G2B10
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000153563	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000 IHC: 1:10000-1:40000 IF-P: 1:200-1:800
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> P01732	
<b>Immunogen Catalog Number:</b> AG11111	<b>Full Name:</b> CD8a molecule	
	<b>Calculated MW:</b> 235 aa, 26 kDa	
	<b>Observed MW:</b> 32 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b> WB : MOLT-4 cells, human peripheral blood leukocyte
<b>Cited Applications:</b> WB, IHC, IF	<b>IHC :</b> human tonsillitis tissue, human appendicitis tissue, human breast cancer tissue, human colon cancer tissue, human lung cancer tissue, human pancreas cancer tissue
<b>Species Specificity:</b> human	<b>IF-P :</b> human tonsillitis tissue,
<b>Cited Species:</b> 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

CD8 is a transmembrane glycoprotein that is predominantly expressed on the surface of cytotoxic T cells, and can also be found on natural killer cells, cortical thymocytes, and dendritic cells. CD8 serves as a co-receptor for the T cell receptor (TCR). Both CD8 and TCR recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. CD8 plays a role in T cell development and activation of mature T cells. This antibody is raised against 23-183 aa of human CD8a, the alpha chain of CD8 molecule.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yanyu Ren	36248860	Front Immunol	IHC
Yan Yang	34582523	Biomater Sci	IHC
Yanli Liu	36238304	Front Immunol	IHC

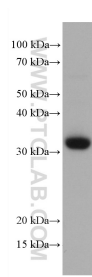
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

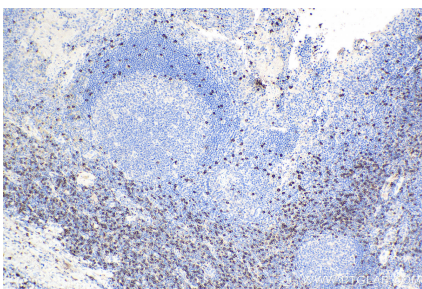
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

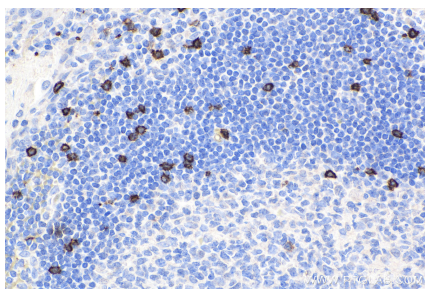
Selected Validation Data



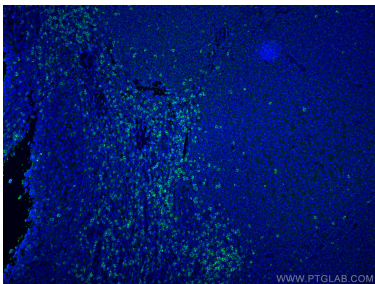
MOLT-4 cells were subjected to SDS PAGE followed by western blot with 66868-1-Ig (CD8a antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



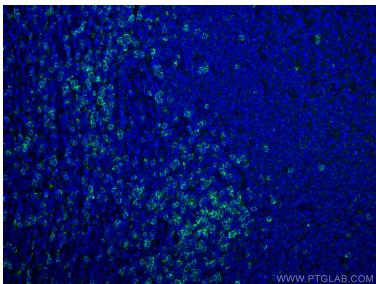
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66868-1-Ig (CD8a antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



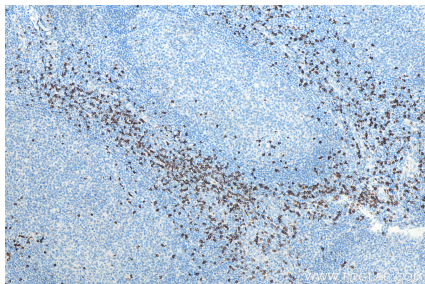
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66868-1-Ig (CD8a antibody) at dilution of 1:20000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD8a antibody (66868-1-Ig, Clone: 1G2B10 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD8a antibody (66868-1-Ig, Clone: 1G2B10 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66868-1-Ig (CD8 antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).