

For Research Use Only

# Granzyme K Monoclonal antibody

Catalog Number: 67272-1-Ig **6 Publications**



## Basic Information

<b>Catalog Number:</b> 67272-1-Ig	<b>GenBank Accession Number:</b> BC035802	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 800 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3003	<b>CloneNo.:</b> 1C3A4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P49863	<b>Recommended Dilutions:</b> IHC: 1:500-1:2000 IF-P: 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> granzyme K (granzyme 3; NK tryptase II)	
<b>Immunogen Catalog Number:</b> AG27297	<b>Calculated MW:</b> 29 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF-P, ELISA	<b>Positive Controls:</b> IHC : human tonsillitis tissue, IF-P : human tonsillitis tissue,
<b>Cited Applications:</b> IHC, IF	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse	
<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>	

## Background Information

Granzymes are a family of serine proteases stored in granules inside cytotoxic cells of the immune system. There are five human granzymes (granzyme A (GrA), GrB, GrH, GrK and GrM) currently identified, whereas mice have ten known granzymes (GrA-G, GrK, GrM and GrN) (PMID:14499263). Human GrK was first discovered in 1988 after purification from human peripheral blood mononuclear cells. GrK is expressed by cytotoxic T lymphocytes, natural killer T cells (NKT),  $\gamma\delta$  T cells and CD56bright+ NK cells.

## Notable Publications

Author	Pubmed ID	Journal	Application
Rui Fu	40021042	Cancer Lett	IHC
Guiping Kong	39809279	Neuron	IF
Saba Nayar	39747819	Nat Commun	IF

## Storage

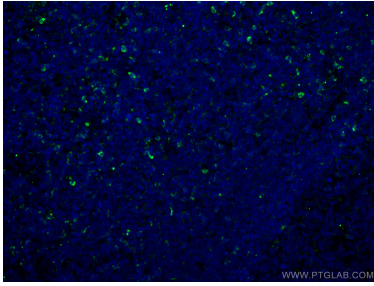
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

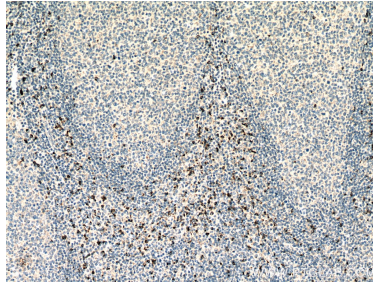
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

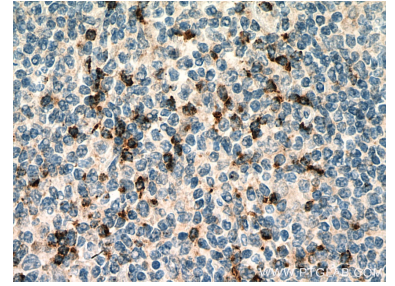
## Selected Validation Data



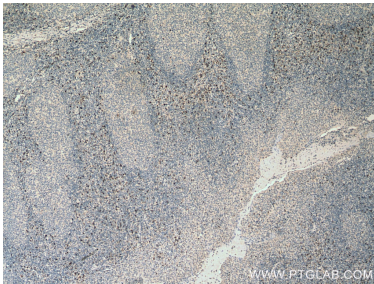
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using Granzyme K antibody (67272-1-Ig, Clone: 1C3A4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). DAPI (blue).



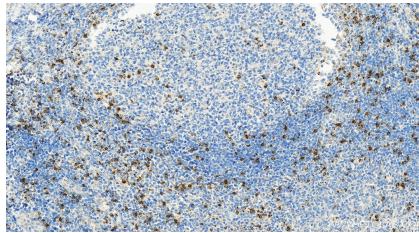
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67272-1-Ig (GZMK antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67272-1-Ig (GZMK antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67272-1-Ig (GZMK antibody) at dilution of 1:1000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67272-1-Ig (Granzyme K antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).