

For Research Use Only

Granzyme K Monoclonal antibody

Catalog Number: 67272-1-Ig **4 Publications**



Basic Information

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

Applications

Tested Applications: IHC, IF-P, ELISA	Positive Controls: IHC : human tonsillitis tissue, IF-P : human tonsillitis tissue,
Cited Applications: IHC, IF	
Species Specificity: human	
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

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
Saba Nayar	39747819	Nat Commun	IF
Xu Yang	39006494	J Inflamm Res	IF
Zihan Xi	38137348	Biomedicines	IHC

Storage

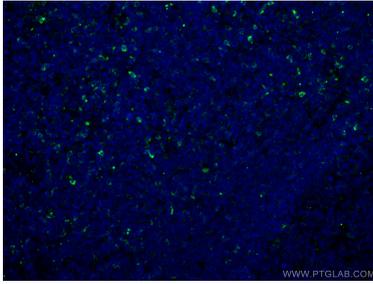
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

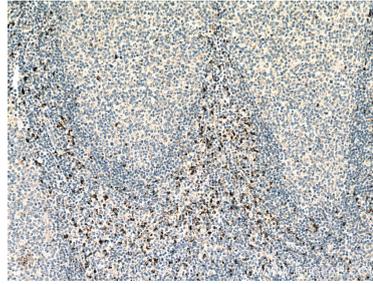
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

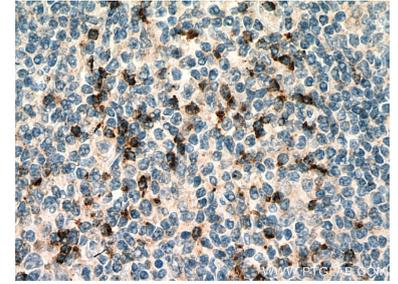
Selected Validation Data



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).



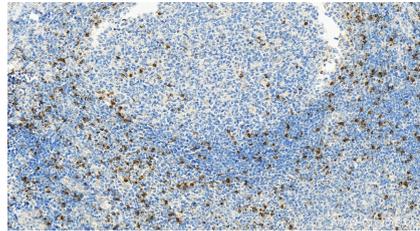
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67272-1-Ig (GZMK antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).