

# Granzyme A Polyclonal antibody

Catalog Number: 11288-1-AP

5 Publications

## Basic Information

<b>Catalog Number:</b> 11288-1-AP	<b>GenBank Accession Number:</b> BC015739	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3001	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 29 kDa	
<b>Immunogen Catalog Number:</b> AG1818	<b>Observed MW:</b> 30, 60 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> FC, IF, IHC, WB	<b>WB :</b> mouse kidney tissue, rat kidney tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human lymphoma tissue,
<b>Cited Species:</b> human, chicken, mouse	

**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

Granzyme A (GrA, a tryptase) is necessary for target cell lysis in cell-mediated immune responses. It activates mitochondrial outer membrane permeabilization- and caspase-independent cell death pathways by cleaving the mitochondrial complex I component NDUFS3 after lys56. Among serine proteases GrA has a unique quaternary structure consisting of a disulphide-linked homodimer of 60kDa linked via Cys93. (PMID: 12819769) This protein has 2 isoforms produced by alternative promoter usage with the MW of 29 and 27 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhen Xiang	30422018	Immunopharmacol Immunotoxicol	IHC
Cui-Ying Chen	23164636	Res Vet Sci	WB
Dan Zhang	30031066	J Proteomics	WB

## Storage

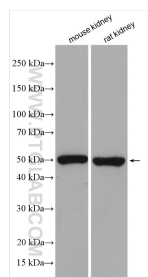
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

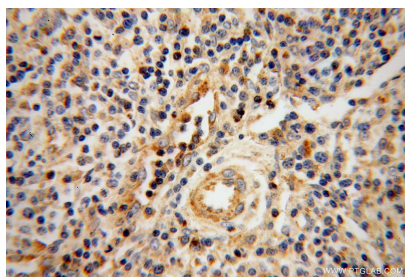
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product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

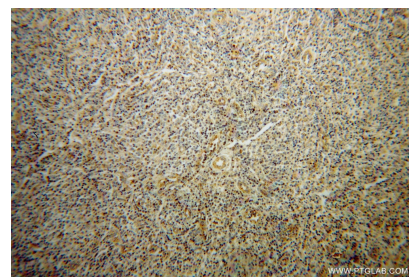
## Selected Validation Data



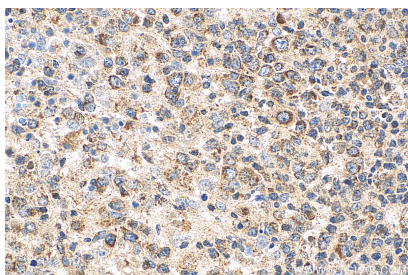
Various lysates were subjected to SDS PAGE followed by western blot with 11288-1-AP (Granzyme A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lymphoma using 11288-1-AP (Granzyme A antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human lymphoma using 11288-1-AP (Granzyme A antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 11288-1-AP (Granzyme A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).