

For Research Use Only

# AGA Recombinant antibody

Catalog Number: 83442-6-RR **1 Publications**



## Basic Information

<b>Catalog Number:</b> 83442-6-RR	<b>GenBank Accession Number:</b> BC012392	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 175	<b>CloneNo.:</b> 240396B4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P20933	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> aspartylglucosaminidase	
<b>Immunogen Catalog Number:</b> AG10681	<b>Calculated MW:</b> 346 aa, 37 kDa	
	<b>Observed MW:</b> 24 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : MCF-7 cells, HepG2 cells, mouse testis tissue IHC : mouse kidney tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> 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

AGA(Aspartylglucosaminidase) is also named as N(4)-(beta-N-acetylglucosaminyL)-L-asparaginase and glycosylasparaginase. The open reading frame of the readthrough transcript would indicate AGA close to 40 kDa. It can be cleaved into 2 chains: the 24 kDa  $\alpha$ - and 17 kDa  $\beta$ -subunits of the wild-type AGA, in addition, an aberrant polypeptide with a mol.wt of 21 kDa is also detected as a product of proteolytic cleavage of the mutant precursor molecule (PMID: 9425233). AGA can exist as a dimer with the mol.wt between 100 kDa and 49 kDa and His124 at an interface between two heterodimers of AGA is crucial for the thermodynamically stable oligomeric structure of AGA. (PMID:9737998). It can also exist as a heterotetrameric protein of 88 kDa (PMID:1733831).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yexiang Chen	39469623	Front Pharmacol	WB

## Storage

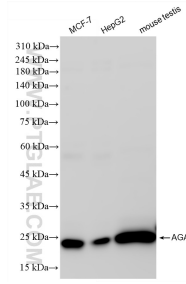
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

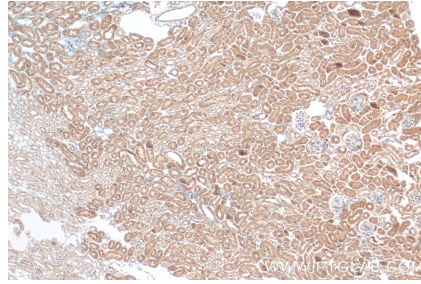
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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This product is exclusively available under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

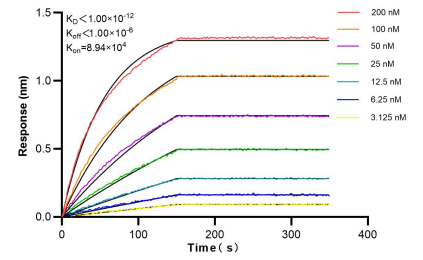
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83442-6-RR (AGA antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 83442-6-RR (AGA antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 83442-6-RR against Human AGA were performed. The affinity constant is below 1 pM.