

For Research Use Only

AGA Recombinant antibody, PBS Only

Catalog Number: 83442-6-PBS



Basic Information

Catalog Number: 83442-6-PBS	GenBank Accession Number: BC012392	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 175	CloneNo.: 240396B4
Source: Rabbit	UNIPROT ID: P20933	
Isotype: IgG	Full Name: aspartylglucosaminidase	
Immunogen Catalog Number: AG10681	Calculated MW: 346 aa, 37 kDa	
	Observed MW: 24 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, mouse

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 α - and 17 kDa β -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).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

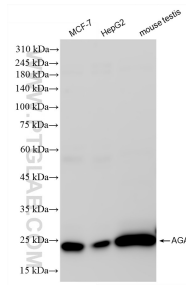
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

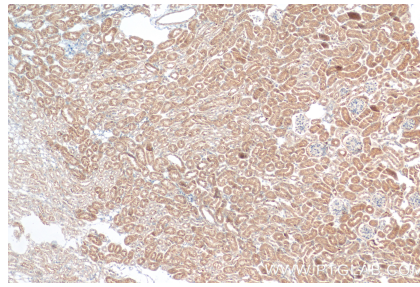
E: proteintech@ptglab.com
W: ptglab.com

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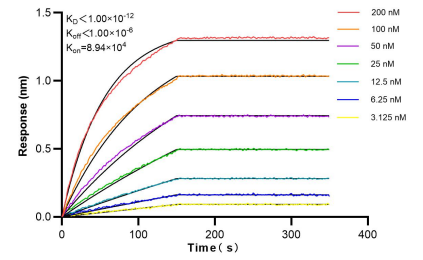
Selected Validation Data



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. This data was developed using the same antibody clone with 83442-6-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83442-6-PBS in a different storage buffer formulation.



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