

For Research Use Only

IDUA Recombinant antibody

Catalog Number: 86499-1-RR



Basic Information

Catalog Number: 86499-1-RR	GenBank Accession Number: NM_000203	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 3425	CloneNo.: 251274F3
Source: Rabbit	UNIPROT ID: P35475	Recommended Dilutions: WB: 1:1000-1:4000
Isotype: IgG	Full Name: iduronidase, alpha-L-	
Immunogen Catalog Number: AG30658	Calculated MW: 73 kDa	
	Observed MW: 73-75 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HEK-293 cells, HeLa cells, LNCaP cells, mouse brain tissue, rat brain tissue, mouse kidney tissue, rat kidney tissue
Species Specificity: human, mouse, rat	

Background Information

Iduronidase (L-iduronidase, alpha-L-iduronidase, laronidase) is an enzyme with the systematic name glycosaminoglycan alpha-L-iduronohydrolase. This enzyme catalyzes the hydrolysis of unsulfated alpha-L-iduronosidic linkages in dermatan sulfate. It is a glycoprotein enzyme found in the lysosomes of cells. It is involved in the degeneration of glycosaminoglycans such as dermatan sulfate and heparan sulfate. The enzyme acts by hydrolyzing the terminal alpha-L-iduronic acid residues of these molecules, degrading them (PMID: 4993544,30407). A deficiency in the IDUA protein is associated with mucopolysaccharidoses (MPS). MPS, a type of lysosomal storage disease, is typed I through VII. In this syndrome, glycosaminoglycans accumulate in the lysosomes and cause substantial disease in many different tissues of the body. IDUA mutations result in the MPS 1 phenotype, which is inherited in an autosomal recessive fashion. The defective alpha-L-iduronidase results in an accumulation of heparan and dermatan sulfate within phagocytes, endothelium, smooth muscle cells, neurons, and fibroblasts. Prenatal diagnosis of this enzyme deficiency is possible (PMID:8242073).

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

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

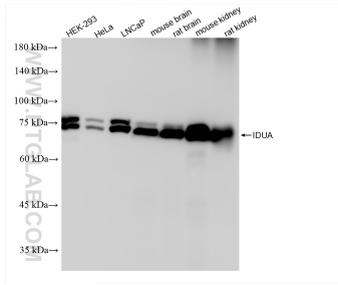
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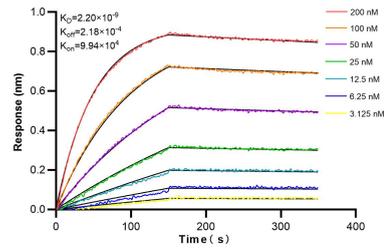
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86499-1-RR (IDUA antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86499-1-RR against Human IDUA were performed. The affinity constant is 2.20 nM.