

For Research Use Only

ALDH4A1 Recombinant antibody, PBS Only (Detector)

Catalog Number: 86297-1-PBS



Basic Information

Catalog Number: 86297-1-PBS	GenBank Accession Number: BC023600	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 8659	CloneNo.: 250957F8
Source: Rabbit	UNIPROT ID: P30038	
Isotype: IgG	Full Name: aldehyde dehydrogenase 4 family, member A1	
Immunogen Catalog Number: AG2147	Calculated MW: 563 aa, 62 kDa	
	Observed MW: 62 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA, Sample test

Species Specificity:
human, mouse, rat

Background Information

ALDH4A1 (Aldehyde dehydrogenase family 4 member A1) is also named as ALDH4, P5CDH, P5C dehydrogenase and belongs to the aldehyde dehydrogenase family. P5CDH is a mitochondrial matrix NAD(+) -dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Defects in ALDH4A1 are the cause of hyperprolinemia type 2 (HP-2).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

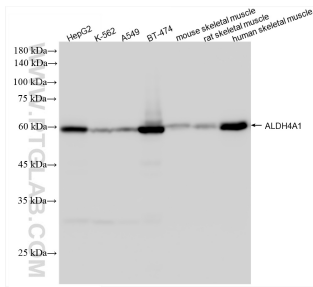
T: 4006900926

E: Proteintech-CN@ptglab.com

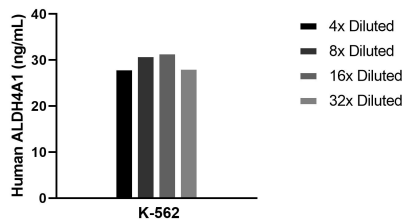
W: ptgcn.com

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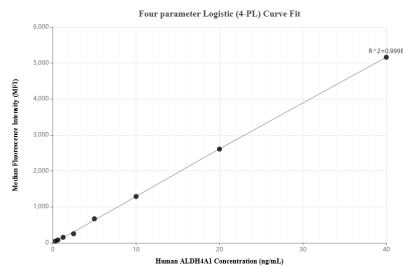
Selected Validation Data



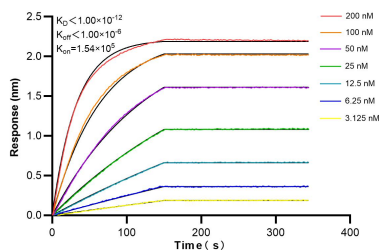
Various lysates were subjected to SDS PAGE followed by western blot with 86297-1-RR (ALDH4A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86297-1-PBS in a different storage buffer formulation.



The mean ALDH4A1 concentration was determined to be 29.8 ng/mL in K-562 cell extract based on a 3.0 mg/mL extract load.



Cytometric bead array standard curve of MP02370-1, ALDH4A1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86297-2-PBS. Detection antibody: 86297-1-PBS. Standard: Ag2147. Range: 0.312-40 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 86297-1-RR against Human ALDH4A1 were performed. The affinity constant is below 1 pM.