

For Research Use Only

DAO Polyclonal antibody

Catalog Number: 13273-1-AP **5 Publications**



Basic Information

Catalog Number: 13273-1-AP	GenBank Accession Number: BC029057	Purification Method: Antigen affinity purification
Size: 300 µg/ml	GeneID (NCBI): 1610	Recommended Dilutions: WB 1:500-1:2000 IHC 1:100-1:400
Source: Rabbit	UNIPROT ID: P14920	
Isotype: IgG	Full Name: D-amino-acid oxidase	
Immunogen Catalog Number: AG3973	Calculated MW: 347 aa, 39 kDa	
	Observed MW: 39 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : mouse kidney tissue, rat cerebellum tissue, A549 cells IHC : human colon tissue,
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat	
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

D-amino acid oxidase (DAO), with MW of 39 kDa, is a flavoprotein which uses flavin adenine dinucleotide as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. DAO may play a role in the pathophysiology of schizophrenia and act as a detoxifying agent which removes D-amino acids that accumulate during aging. DAAO exists in solution as a mixture of monomer-dimer (80 kDa) and even higher molecular aggregates in equilibrium (170 kDa), depending on the enzyme concentration and forms (PMID: 11130179/PMID: 9210639).

Notable Publications

Author	Pubmed ID	Journal	Application
Takahiro Seki	30342995	Mol Cell Neurosci	
Anastasia V Sudarikova	35081320	Am J Physiol Cell Physiol	IF
Zige Jiang	39104115	Neural Regen Res	WB

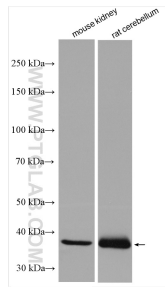
Storage

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

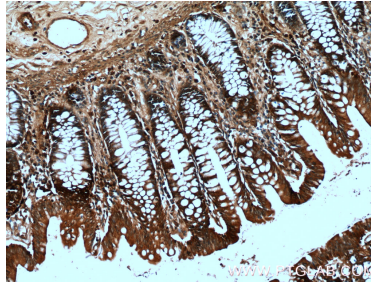
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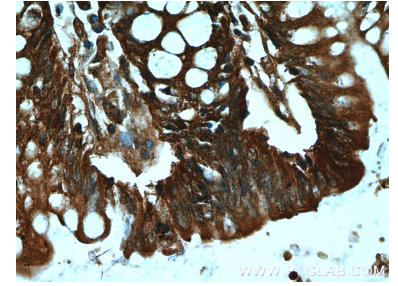
Selected Validation Data



mouse kidney tissue were subjected to SDS PAGE followed by western blot with 13273-1-AP (DAO antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 13273-1-AP (DAO Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 13273-1-AP (DAO Antibody) at dilution of 1:200 (under 40x lens).