

DAO Monoclonal antibody

Catalog Number: 66296-1-Ig

Basic Information

Catalog Number: 66296-1-Ig	GenBank Accession Number: BC029057	Purification Method: Protein G purification
Size: 1900 µg/ml	GeneID (NCBI): 1610	CloneNo.: 1C12F4
Source: Mouse	UNIPROT ID: P14920	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:100-1:400
Isotype: IgG1	Full Name: D-amino-acid oxidase	
Immunogen Catalog Number: AG6928	Calculated MW: 347 aa, 39 kDa	
	Observed MW: 39 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human, pig, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : pig brain tissue, fetal human brain tissue, pig cerebellum tissue, rat brain tissue, rat cerebellum tissue

IHC : human gliomas tissue, mouse cerebellum tissue

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).

Storage

Storage:

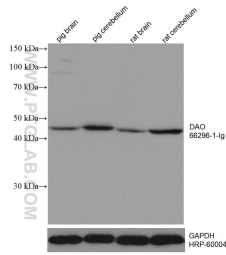
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

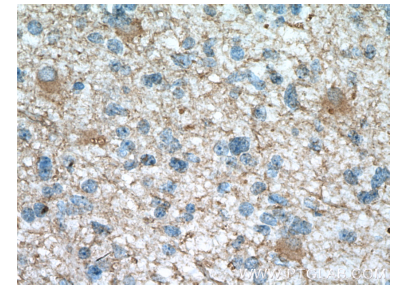
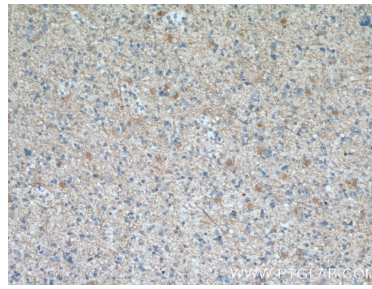
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66296-1-Ig (DAO antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66296-1-Ig (DAO Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).