



Anti-DAO (aa 119-218) polyclonal antibody (DPAB-DC698)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) 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. Its biological function is not known; it may act as a detoxifying agent which removes D-amino acids that accumulate during aging. In mice, it degrades D-serine, a co-agonist of the NMDA receptor. This gene may play a role in the pathophysiology of schizophrenia.
Immunogen	DAO (NP_001908, 119 a.a. ~ 218 a.a) partial recombinant protein with GST tag. The sequence is PRELDMFPDYGYGWFHTSLILEGKNYLQWLTERLTERGVKFFQQRKVESFEEVAREGADV VNCTGVWAGALQRDPLLQPGRGQIMKVDAPWMKHFILTHD
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	DAO D-amino-acid oxidase [Homo sapiens (human)]
Official Symbol	DAO
Synonyms	DAO; D-amino-acid oxidase; DAAO; OXDA; DAMOX; D-amino acid oxidase;
Entrez Gene ID	1610
Protein Refseq	NP_001908
UniProt ID	A0A024RBI1
Chromosome Location	12q24
Pathway	Arginine and proline metabolism; D-Arginine and D-ornithine metabolism; Glycine, serine and threonine metabolism; Glyoxylate metabolism
Function	D-amino-acid oxidase activity; FAD binding; cofactor binding; protein binding