

DAOA Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5669b**Specification**

DAOA Antibody (C-term) Blocking peptide - Product Information

Primary Accession [P59103](#)
Other Accession [NP_758958.3](#)

DAOA Antibody (C-term) Blocking peptide - Additional Information

Gene ID 267012

Other Names

D-amino acid oxidase activator, Protein G72, DAOA, G72

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DAOA Antibody (C-term) Blocking peptide - Protein Information

Name DAOA

Synonyms G72

Function

May suppress DAO (D-amino acid oxidase) and SOD1 activity and promote their degradation (PubMed: [18544534](http://www.uniprot.org/citations/18544534)), PubMed: [20521334](http://www.uniprot.org/citations/20521334)), PubMed: [21679769](http://www.uniprot.org/citations/21679769)), PubMed: [30037290](http://www.uniprot.org/citations/30037290)). Has conversely also been suggested to function as a DAO activator (PubMed: [12364586](http://www.uniprot.org/citations/12364586)), PubMed: [24362575](http://www.uniprot.org/citations/24362575)), PubMed: [29114206](http://www.uniprot.org/citations/29114206)). May stimulate the degradation of DDO (D-aspartate oxidase) (PubMed: [37805834](http://www.uniprot.org/citations/37805834)). May play a role in mitochondrial fission (PubMed: [17684499](http://www.uniprot.org/citations/17684499)).

Cellular Location

Cytoplasm, cytosol. Golgi apparatus. Mitochondrion. Note=May transiently pass through the Golgi apparatus

Tissue Location

Expressed in the amygdala and in astrocytes of the cortex (at protein level) (PubMed:18544534, PubMed:17684499, PubMed:12364586). Expressed in the caudate nucleus, spinal cord and testis (PubMed:12364586).

DAOA Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

DAOA Antibody (C-term) Blocking peptide - Images**DAOA Antibody (C-term) Blocking peptide - Background**

DAOA is a protein that is an activator of the FAD-dependent enzyme D-amino acid oxidase, which degrades the neurotransmitter D-serine, a potent activator of N-methyl-D-aspartate (NMDA) type glutamate receptors. Polymorphisms in this gene have been implicated in susceptibility to schizophrenia and bipolar affective disorder, possibly due to decreased levels of D-serine and decreased NMDA receptor functioning.

DAOA Antibody (C-term) Blocking peptide - References

Schumacher, J., et al. Mol. Psychiatry 9(2):203-207(2004) Hillman, R.T., et al. Genome Biol. 5 (2), R8 (2004) :Hattori, E., et al. Am. J. Hum. Genet. 72(5):1131-1140(2003) Chumakov, I., et al. Proc. Natl. Acad. Sci. U.S.A. 99(21):13675-13680(2002)