

MAOA Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7463a**Specification**

MAOA Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P21397](#)**MAOA Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 4128**Other Names**

Amine oxidase [flavin-containing] A, Monoamine oxidase type A, MAO-A, MAOA

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7463a](/products/AP7463a) was selected from the N-term region of human MAOA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

MAOA Antibody (N-term) Blocking Peptide - Protein Information**Name** MAOA ([HGNC:6833](#))**Function**

Catalyzes the oxidative deamination of primary and some secondary amine such as neurotransmitters, with concomitant reduction of oxygen to hydrogen peroxide and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues (PubMed: [20493079](http://www.uniprot.org/citations/20493079), PubMed: [8316221](http://www.uniprot.org/citations/8316221), PubMed: [18391214](http://www.uniprot.org/citations/18391214), PubMed: [24169519](http://www.uniprot.org/citations/24169519)). Preferentially oxidizes serotonin (PubMed: [20493079](http://www.uniprot.org/citations/20493079), PubMed: [24169519](http://www.uniprot.org/citations/24169519)). Also catalyzes the oxidative deamination of kynuramine to 3-(2-aminophenyl)-3-oxopropanal that can spontaneously condense to 4-hydroxyquinoline (By similarity).

Cellular Location

Mitochondrion outer membrane {ECO:0000250|UniProtKB:P21396}; Single-pass type IV membrane protein {ECO:0000250|UniProtKB:P21396}; Cytoplasmic side {ECO:0000250|UniProtKB:P21396}

Tissue Location

Heart, liver, duodenum, blood vessels and kidney.

MAOA Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MAOA Antibody (N-term) Blocking Peptide - Images**MAOA Antibody (N-term) Blocking Peptide - Background**

MAOA, monoamine oxidase A, an enzyme that degrades amine neurotransmitters, such as dopamine, norepinephrine, and serotonin. The protein localizes to the mitochondrial outer membrane. This protein is adjacent to a related gene on the opposite strand of chromosome X. Mutation in MAOA gene results in monoamine oxidase deficiency, or Brunner syndrome.

MAOA Antibody (N-term) Blocking Peptide - References

Zhu Q.S., Grimsby J.S.J. Neurosci. 12:4437-4446(1992)De Colibus L., Li M.Proc. Natl. Acad. Sci. U.S.A. 102:12684-12689(2005)