

KMO Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8660c**Specification**

KMO Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O15229](#)**KMO Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 8564**Other Names**

Kynurenine 3-monooxygenase {ECO:0000255|HAMAP-Rule:MF_03018}, 114139
{ECO:0000255|HAMAP-Rule:MF_03018}, Kynurenine 3-hydroxylase
{ECO:0000255|HAMAP-Rule:MF_03018}, KMO

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8660c](/products/AP8660c) was selected from the Center region of human KMO. 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.

KMO Antibody (Center) Blocking Peptide - Protein Information**Name** KMO {ECO:0000255|HAMAP-Rule:MF_03018, ECO:0000312|HGNC:HGNC:6381}**Function**

Catalyzes the hydroxylation of L-kynurenine (L-Kyn) to form 3-hydroxy-L-kynurenine (L-3OHKyn) (PubMed: [23575632](http://www.uniprot.org/citations/23575632), PubMed: [26752518](http://www.uniprot.org/citations/26752518), PubMed: [28604669](http://www.uniprot.org/citations/28604669), PubMed: [29208702](http://www.uniprot.org/citations/29208702), PubMed: [29429898](http://www.uniprot.org/citations/29429898)). Required for synthesis of quinolinic acid, a neurotoxic NMDA receptor antagonist and potential endogenous inhibitor of NMDA receptor signaling in axonal targeting, synaptogenesis and apoptosis during brain development. Quinolinic acid may also affect NMDA receptor signaling in pancreatic beta cells, osteoblasts, myocardial cells, and the gastrointestinal tract (Probable).

Cellular Location

Mitochondrion outer membrane {ECO:0000255|HAMAP- Rule:MF_03018, ECO:0000269|PubMed:9237672}; Multi-pass membrane protein {ECO:0000255|HAMAP-Rule:MF_03018, ECO:0000269|PubMed:9237672}

Tissue Location

Highest levels in placenta and liver. Detectable in kidney.

KMO Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KMO Antibody (Center) Blocking Peptide - Images**KMO Antibody (Center) Blocking Peptide - Background**

Kynurenine 3-monooxygenase (KMO; EC 1.14.13.9) is an NADPH-dependent flavin monooxygenase that catalyzes the hydroxylation of the L-tryptophan metabolite L-kynurenine to form L-3-hydroxykynurenine.

KMO Antibody (Center) Blocking Peptide - References

Ligam,P., et.al., Placenta 26 (6), 498-504 (2005)