

# KMO Rabbit pAb

Catalog # AP99845

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                        |
| <b>Primary Accession</b>       | <a href="#">O15229</a>                                                                                                                                                                                                                                                                  |
| <b>Other Accession</b>         | <a href="#">O15229</a>                                                                                                                                                                                                                                                                  |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                  |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                              |
| <b>Calculated MW</b>           | 55810                                                                                                                                                                                                                                                                                   |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                  |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human KMO                                                                                                                                                                                                                                 |
| <b>Epitope Specificity</b>     | 51-150/486                                                                                                                                                                                                                                                                              |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                          |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                       |
| <b>SIMILARITY</b>              | Belongs to the aromatic-ring hydroxylase family. KMO subfamily.                                                                                                                                                                                                                         |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                               |
| <b>Background Descriptions</b> | This gene encodes a mitochondrion outer membrane protein that catalyzes the hydroxylation of L-tryptophan metabolite, L-kynurenine, to form L-3-hydroxykynurenine. Studies in yeast identified this gene as a therapeutic target for Huntington disease. [provided by RefSeq, Oct 2011] |

## Additional Information

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| <b>Gene ID</b>     | 8564                                                                                                                                                                                            |
| <b>Other Names</b> | dj317G22.1; KMO_HUMAN; KMO; Kynurenine 3-hydroxylase; 1.14.13.9; kynurenine 3-monooxygenase; kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)                                              |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                                    |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| <b>Name</b>     | KMO {ECO:0000255 HAMAP-Rule:MF_03018, ECO:0000312 HGNC:HGNC:6381}                                                                                                    |
| <b>Function</b> | Catalyzes the hydroxylation of L-kynurenine (L-Kyn) to form 3-hydroxy-L-kynurenine (L-3OHKyn) (PubMed: <a href="#">23575632</a> , PubMed: <a href="#">26752518</a> , |

PubMed:[28604669](#), PubMed:[29208702](#), PubMed:[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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.