

Goat Anti-kynurenine 3-monooxygenase Antibody (aa29-42) (internal region)

Catalog # AF4304a

Product Information

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| Application | WB, E |
| Primary Accession | O15229 |
| Other Accession | NP_003670.2 , 8564 |
| Reactivity | Human |
| Predicted | Human |
| Host | Goat |
| Isotype | IgG |
| Calculated MW | 55810 |

Additional Information

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| Gene ID | 8564 |
| Other Names | Kynurenine 3-monooxygenase {ECO:0000255 HAMAP-Rule:MF_03018}, 1.14.13.9 {ECO:0000255 HAMAP-Rule:MF_03018}, Kynurenine 3-hydroxylase {ECO:0000255 HAMAP-Rule:MF_03018}, KMO |
| Dilution | WB~~1:1000 E~~N/A |
| Storage | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | Goat Anti-kynurenine 3-monooxygenase Antibody (aa29-42) (internal region) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| 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 , PubMed: 26752518 , 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). |

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| 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. |

Images



AF4304a (1 µg/ml) staining of Human Placenta lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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