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

Catalog # AF4304a

Product Information

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

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

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).

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.