

Product datasheet for **TA397510**

kynurenine 3 monooxygenase (KMO) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	WB: 1 µg/ml IHC: 1:100-1:500 IF: 1:100-1:500 ELISA: 1:20,000 - 1:60,000
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	KMO affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region surrounding 300-400aa of the mouse KMO chain.
Specificity:	Anti-KMO was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards Kynurenine 3-monooxygenase (KMO). A BLAST analysis was used to suggest cross-reactivity with Mouse based on 100% sequence homology. Cross-reactivity with KMO from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.02 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Stability:	Expiration date is six (6) months from date of receipt.
Gene Name:	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)
Database Link:	Entrez Gene 8564 Human O15229



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Background:

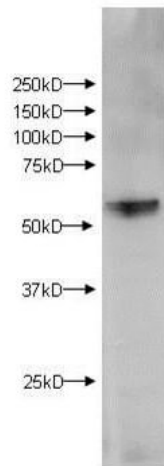
Kynurenine 3-monooxygenase (KMO) catalyzes the hydroxylation of L-kynurenine (L-Kyn) to form 3-hydroxy-L-kynurenine (L-3OHKyn). The enzyme is required for synthesis of quinolinic acid. Quinolinic acid is a neurotoxic NMDA receptor antagonist and potential endogenous inhibitor of NMDA receptor signaling in axonal targeting, synaptogenesis and apoptosis during brain development. Anti-KMO antibodies are ideal for researchers interested in Apoptosis, Neurodegeneration, and Neuroscience research.

Synonyms:

rabbit anti-KMO antibody, kynurenine 3-monooxygenase, kynurenine 3-hydroxylase

Note:

Anti-KMO antibody is tested for ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~58 kDa corresponding to the appropriate cell lysate or extract.

Product images:

Western Blot of Rabbit anti-KMO antibody. Lane 1: Brain Extract. Load: 10 µg per lane. Primary antibody: KMO antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 58 kDa for KMO. Other band(s): None.