



KMO mouse mAb

Catalog No	YP-mAb-11260
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	KMO
Immunogen	Synthesized peptide derived from human KMO AA range: 413-463
Specificity	This antibody detects endogenous levels of KMO at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Kynurenine 3-monooxygenase;Kynurenine 3-hydroxylase;Kynurenine 3 monooxygenase;KMO
Observed Band	
Calculated Molecular Weight	53kD
Cell Pathway	Mitochondrion outer membrane ; Multi-pass membrane protein .
Tissue Specificity	Highest levels in placenta and liver. Detectable in kidney.
Function	catalytic activity:L-kynurenine + NADPH + O(2) = 3-hydroxy-L-kynurenine + NADP(+) + H(2)O.,cofactor:FAD.,function:Catalyzes the hydroxylation of L-kynurenine (L-Kyn) to form 3-hydroxy-L-kynurenine (L-3OHKyn). 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.,miscellaneous:Increased in neuroinflammatory conditions. Inhibitors are investigated as potential neuroprotective drugs since they lead to an increased level of kynurenic acid, a neuroprotective NMDA receptor agonist.,pathway:Cofactor biosynthesis; NAD(+) biosynthesis; pyridine-2,3-dicarboxylate from L-kynurenine: step 1/3.,s



Background

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],

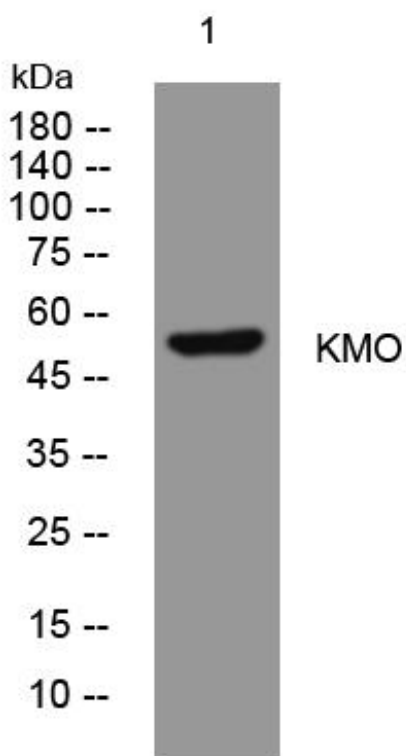
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using KMO mouse mAb