

KMO rabbit pAb

Catalog No :	YT6625
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
Target :	KMO
Fields :	>>Tryptophan metabolism;>>Metabolic pathways;>>Biosynthesis of cofactors
Gene Name :	KMO
Protein Name :	KMO
Human Gene Id :	8564
Human Swiss Prot No :	O15229
Mouse Gene Id :	98256
Mouse Swiss Prot No :	Q91WN4
Rat Gene Id :	59113
Rat Swiss Prot No :	O88867
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 :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Molecularweight : 53kD

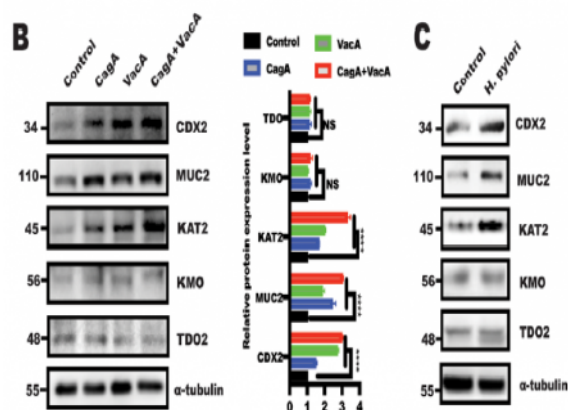
Background : This gene encodes a mitochondrion outer membrane protein that catalyzes the hydroxylation of L-tryptophan metabolite, L-kynurenine, to form L-3-hydroxykynurenine. Studies in yeast identified this gene as a therapeutic target for Huntington disease. [provided by RefSeq, Oct 2011],

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

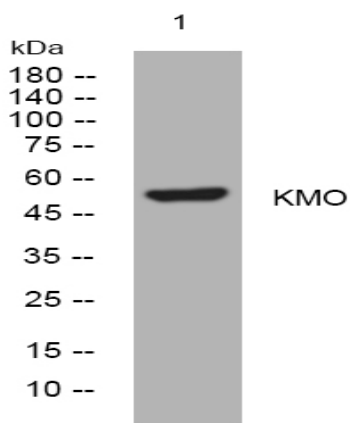
Subcellular Location : Mitochondrion outer membrane ; Multi-pass membrane protein .

Expression : Highest levels in placenta and liver. Detectable in kidney.

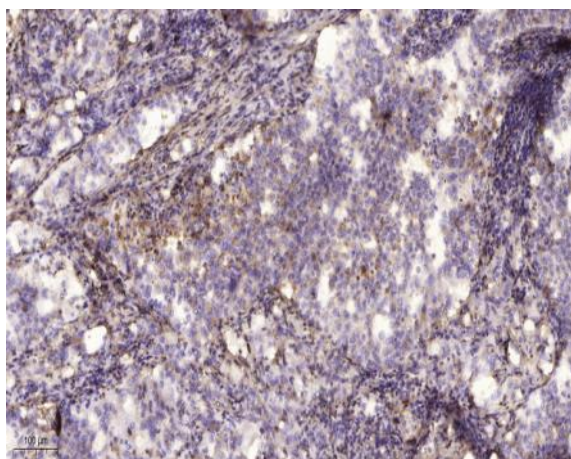
Products Images



Helicobacter pylori promotes gastric intestinal metaplasia through activation of IRF3-mediated kynurenine pathway. Wanfu Xu IF, IHC Mouse 1:800 gastric mucosa tissue



Western blot analysis of lysates from CACO2 cells, primary antibody was diluted at 1:1000, 4° over night



Immunohistochemical analysis of paraffin-embedded human lung cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).