KMO Rabbit pAb

CatalogNo: YT6625

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA,IHC

MW
- 53kD (Calculated)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
IHC 1:50-300
ELISA 1:2000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human KMO AA range: 413-463
Specificity	This antibody detects endogenous levels of KMO at Human/Mouse/Rat

Target Information

Gene name	KMO

Protein Name KMO

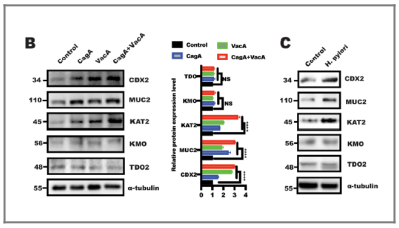
Organism	Gene ID	UniProt ID
Human	8564;	O15229;
Mouse	98256;	Q91WN4;
Rat	59113;	O88867;

Cellular Localization Mitochondrion outer membrane ; Multi-pass membrane protein .

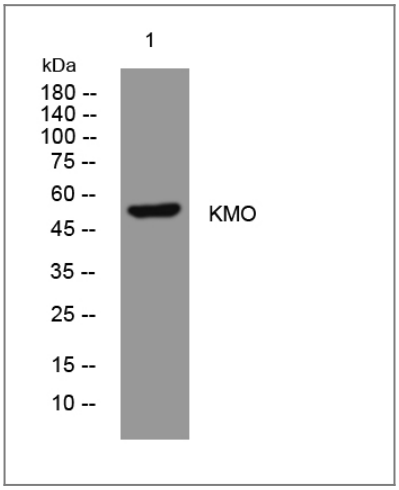
Tissue specificity Highest levels in placenta and liver. Detectable in kidney.

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.,similarity:Belongs to the aromatic-ring hydroxylase family. KMO subfamily.,tissue specificity:Highest levels in placenta and liver. Detectable in kidney.,

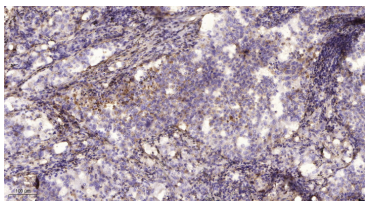
Validation Data



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).

Contact information

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Please scan the QR code to access additional product information:
KMO Rabbit pAb

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