

**KMO rabbit pAb**

<b>Catalog No :</b>	YT6625
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA;IHC
<b>Target :</b>	KMO
<b>Fields :</b>	>>Tryptophan metabolism;>>Metabolic pathways;>>Biosynthesis of cofactors
<b>Gene Name :</b>	KMO
<b>Protein Name :</b>	KMO
<b>Human Gene Id :</b>	8564
<b>Human Swiss Prot No :</b>	O15229
<b>Mouse Gene Id :</b>	98256
<b>Mouse Swiss Prot No :</b>	Q91WN4
<b>Rat Gene Id :</b>	59113
<b>Rat Swiss Prot No :</b>	O88867
<b>Immunogen :</b>	Synthesized peptide derived from human KMO AA range: 413-463
<b>Specificity :</b>	This antibody detects endogenous levels of KMO at Human/Mouse/Rat
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-

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chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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

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**Molecularweight :** 53kD

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**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],

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**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

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

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

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**Sort :** 8969

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**No4 :** 1

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**Host :** Rabbit

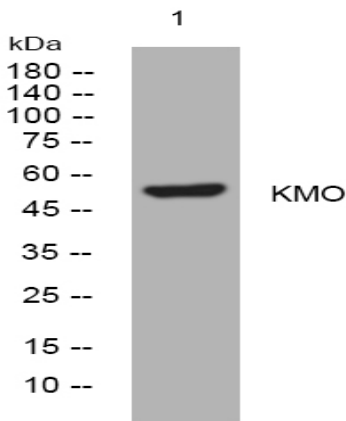
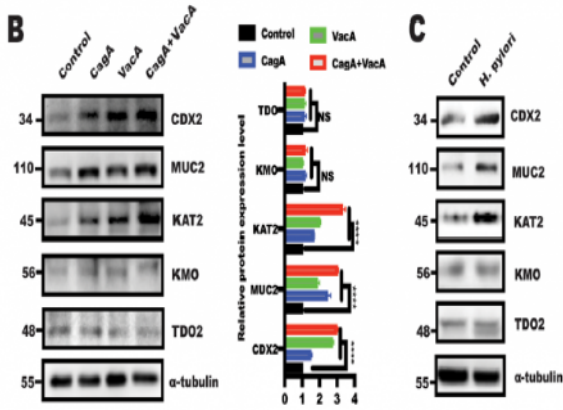
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**Modifications :** Unmodified

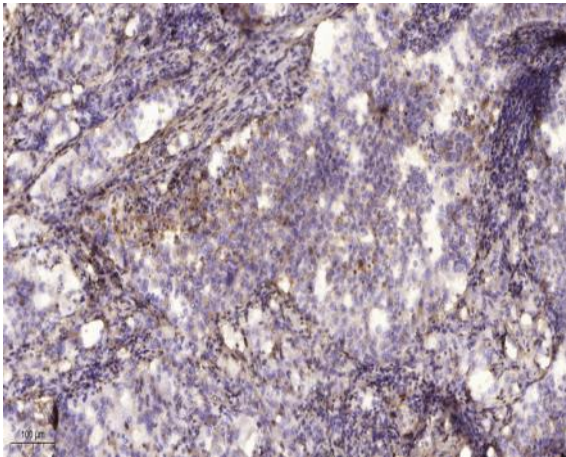
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**Products Images**

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).