

For Research Use Only

KMO Recombinant antibody, PBS Only

Catalog Number:83812-1-PBS



Basic Information

Catalog Number:

83812-1-PBS

Size:

100ug , Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG35029

GenBank Accession Number:

BC005297

GeneID (NCBI):

8564

UNIPROT ID:

O15229

Full Name:

kynurenine 3-monoxygenase (kynurenine 3-hydroxylase)

Calculated MW:

486 aa, 56 kDa

Observed MW:

52-56 kDa

Purification Method:

Protein A purification

CloneNo.:

240586D3

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Species Specificity:

human, mouse

Background Information

KMO(Kynurenine 3-monoxygenase) is an NADPH-dependent flavin monoxygenase, catalysing the hydroxylation of the L-kynurenine to form L-3-hydroxykynurenine. KMO is a membrane protein located on the outer membrane of mitochondria. Tissue distribution studies have revealed that, in rats, highest enzyme activity is found in kidney and liver, with brain having the least activity in comparison to peripheral organs(PMID: 9237672).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

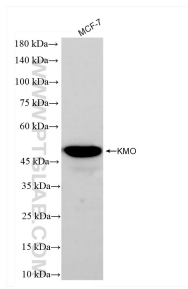
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

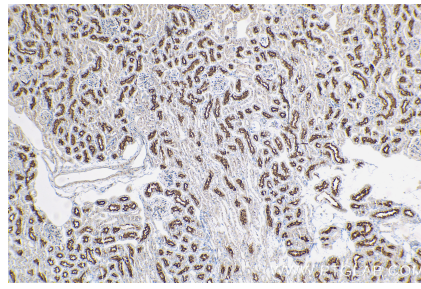
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

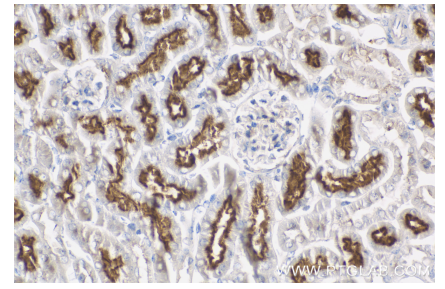
Selected Validation Data



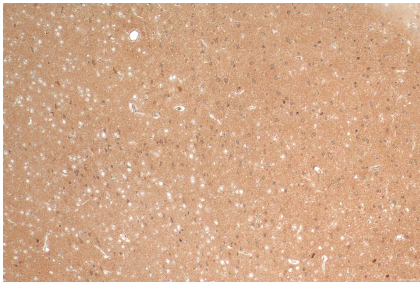
MCF-7 cells were subjected to SDS PAGE followed by western blot with 83812-1-RR (KMO antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83812-1-PBS in a different storage buffer formulation.



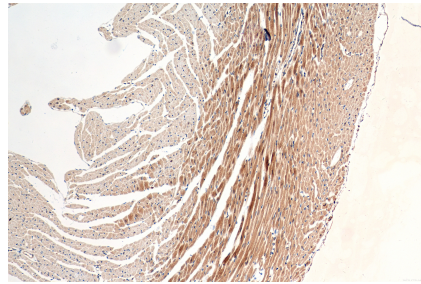
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 83812-1-RR (KMO antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83812-1-PBS in a different storage buffer formulation.



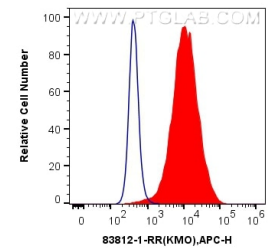
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 83812-1-RR (KMO antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83812-1-PBS in a different storage buffer formulation.



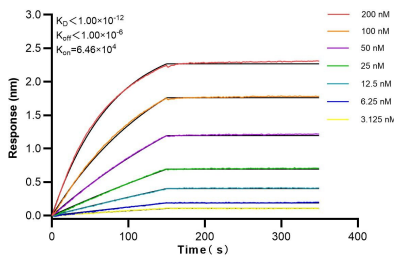
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83812-1-RR (KMO antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83812-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 83812-1-RR (KMO antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83812-1-PBS in a different storage buffer formulation.



1×10^6 MCF-7 cells were intracellularly stained with 0.25 ug KMO Recombinant antibody (83812-1-RR, Clone:240586D3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83812-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83812-1-RR against Human KMO were performed. The affinity constant is below 1 pM.