

# MAOA Monoclonal antibody

Catalog Number: 68471-1-Ig

## Basic Information

**Catalog Number:**

68471-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG30028

**GenBank Accession Number:**

BC008064

**GeneID (NCBI):**

4128

**UNIPROT ID:**

P21397

**Full Name:**

monoamine oxidase A

**Calculated MW:**

60 kDa

**Observed MW:**

60 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1A9E4

**Recommended Dilutions:**

WB 1:1000-1:5000

IHC 1:500-1:2000

## Applications

**Tested Applications:**

WB, IHC, FC (Intra), ELISA

**Species Specificity:**

human

**Note-IHC:** suggested antigen retrieval with **TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** K-562 cells, U2OS cells, LNCaP cells, Jurkat cells

**IHC :** human pancreas cancer tissue,

## Background Information

MAOA belongs to the flavin monoamine oxidase family. It catalyzes the oxidative deamination of biogenic and xenobiotic amines and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT), norepinephrine and epinephrine.

## Storage

**Storage:**

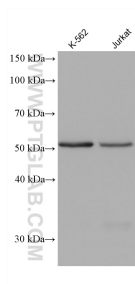
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

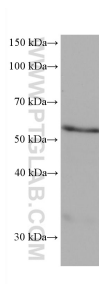
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

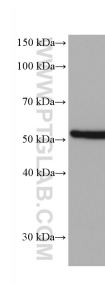
## Selected Validation Data



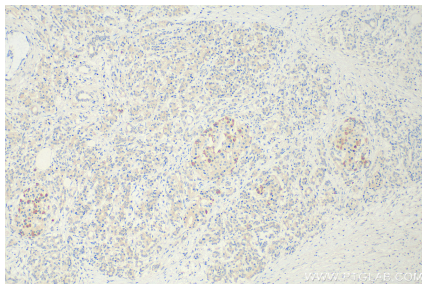
Various lysates were subjected to SDS PAGE followed by western blot with 68471-1-Ig (MAOA antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



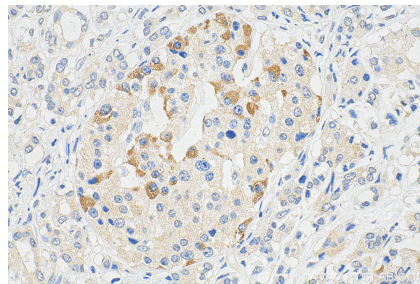
U2OS cells were subjected to SDS PAGE followed by western blot with 68471-1-Ig (MAOA antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



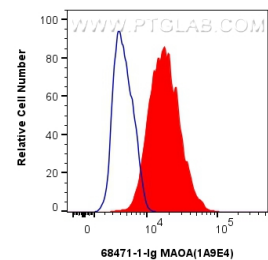
LNCaP cells were subjected to SDS PAGE followed by western blot with 68471-1-Ig (MAOA antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 68471-1-Ig (MAOA antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 68471-1-Ig (MAOA antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.4  $\mu$ g MAOA Monoclonal antibody (68471-1-Ig, Clone:1A9E4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.4  $\mu$ g Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).