

For Research Use Only

# MAOB Monoclonal antibody

Catalog Number: 66107-1-Ig



## Basic Information

<b>Catalog Number:</b> 66107-1-Ig	<b>GenBank Accession Number:</b> BC022494	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 733 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4129	<b>CloneNo.:</b> 2B12F3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P27338	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:20-1:200 IF-P 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> monoamine oxidase B	
<b>Immunogen Catalog Number:</b> AG17918	<b>Calculated MW:</b> 520 aa, 59 kDa	
	<b>Observed MW:</b> 59 kDa	

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

human, mouse

**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 :** fetal human brain tissue, human brain tissue, human kidney tissue, HeLa cells, HepG2 cells, HuH-7 cells

**IHC :** human brain tissue,

**IF-P :** mouse kidney tissue,

## Background Information

The MAOB gene encodes a 520-amino acid protein with a molecular mass of 58.8 kD and shows 70% amino acid identity to MAOA. MAOA and MAOB are present in the outer mitochondrial membrane in the central nervous system and peripheral tissues. A comparison of highly purified human placental MAOA and human liver MAOB revealed that the A form of the enzyme is larger by 2 kDa and only one potential N-glycosylation site exists in each protein, with each site in a different relevant position (PMID:3387449).

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

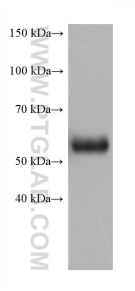
For technical support and original validation data for this product please contact:

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

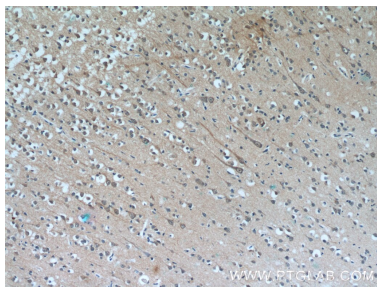
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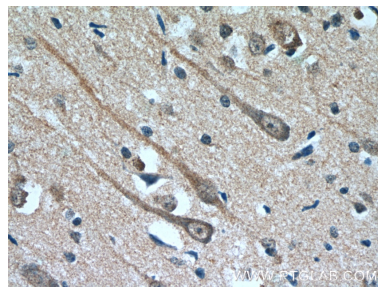
Selected Validation Data



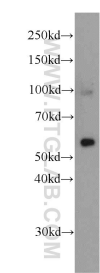
fetal human brain tissue were subjected to SDS PAGE followed by western blot with 66107-1-Ig (MAOB antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



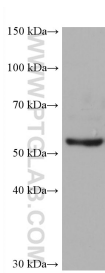
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66107-1-Ig (MAOB Antibody) at dilution of 1:50(under 10x lens).



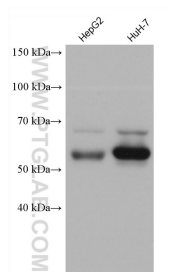
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66107-1-Ig (MAOB Antibody) at dilution of 1:50(under 40x lens).



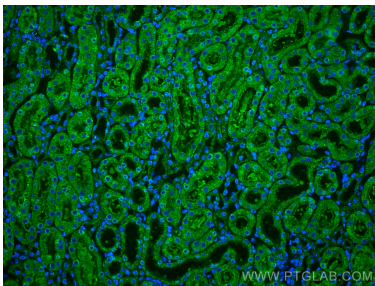
human brain tissue were subjected to SDS PAGE followed by western blot with 66107-1-Ig (MAOB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



HeLa cells were subjected to SDS PAGE followed by western blot with 66107-1-Ig (MAOB antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66107-1-Ig (MAOB antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using MAOB antibody (66107-1-Ig, Clone: 2B12F3 ) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).