



Rabbit Anti-Monoamine Oxidase B antibody

SL11297R

Product Name:	Monoamine Oxidase B
Chinese Name:	单胺氧化酶B抗体
Alias:	Adrenalin oxidase; Amine oxidase (flavin containing); Amine oxidase [flavin-containing] B; AOFB_HUMAN; MAO, brain; MAO, platelet; MAO-B; MAOB; MGC26382; Monoamine oxidase B; Monoamine oxidase type B; OTTHUMP00000023166; Tyramine oxidase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	59kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MAOB/Monoamine Oxidase B:51-150/520
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Monoamine oxidase (MAO) is an enzyme of the mitochondrial outer membrane and catalyzes the oxidative deamination of biogenic amines throughout the body (1). MAO is critical in the neuronal metabolism of catecholamine and indolamine transmitters (2).

Cultured skin fibroblasts show both MAO-A and MAO-B and both MAOs differ in molecular structure (1). MAO-A, the primary type in fibroblasts, preferentially degrades serotonin and norepinephrine (3). Only MAO-B is present in platelets and only MAO-A is present in trophoblasts (1). MAO-B, the primary type found not only in platelets but also in the brain of man and other primates, preferentially degrades phenylethylamine and benzylamine (3). MAO has been of particular interest to psychiatry and genetics because of the suggestion that low activity is a 'genetic marker' for schizophrenia (4). The genes which encode MAO-A and MAO-B map to human chromosome Xp11.23 (5).

Function:

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. MAOB preferentially degrades benzylamine and phenylethylamine.

Subunit:

Monomer, homo- or heterodimer (containing two subunits of similar size). Each subunit contains a covalently bound flavin. Enzymatically active as monomer (By similarity).

Subcellular Location:

Mitochondrion outer membrane.

Similarity:

Belongs to the flavin monoamine oxidase family.

SWISS:

P27338

Gene ID:

4129

Database links:

[Entrez Gene: 4129](#) Human

[Entrez Gene: 109731](#) Mouse

[Entrez Gene: 25750](#) Rat

[Omim: 309860](#) Human

[SwissProt: P27338](#) Human

[SwissProt: Q8BW75](#) Mouse

[SwissProt: P19643](#) Rat

[Unigene: 654473](#) Human

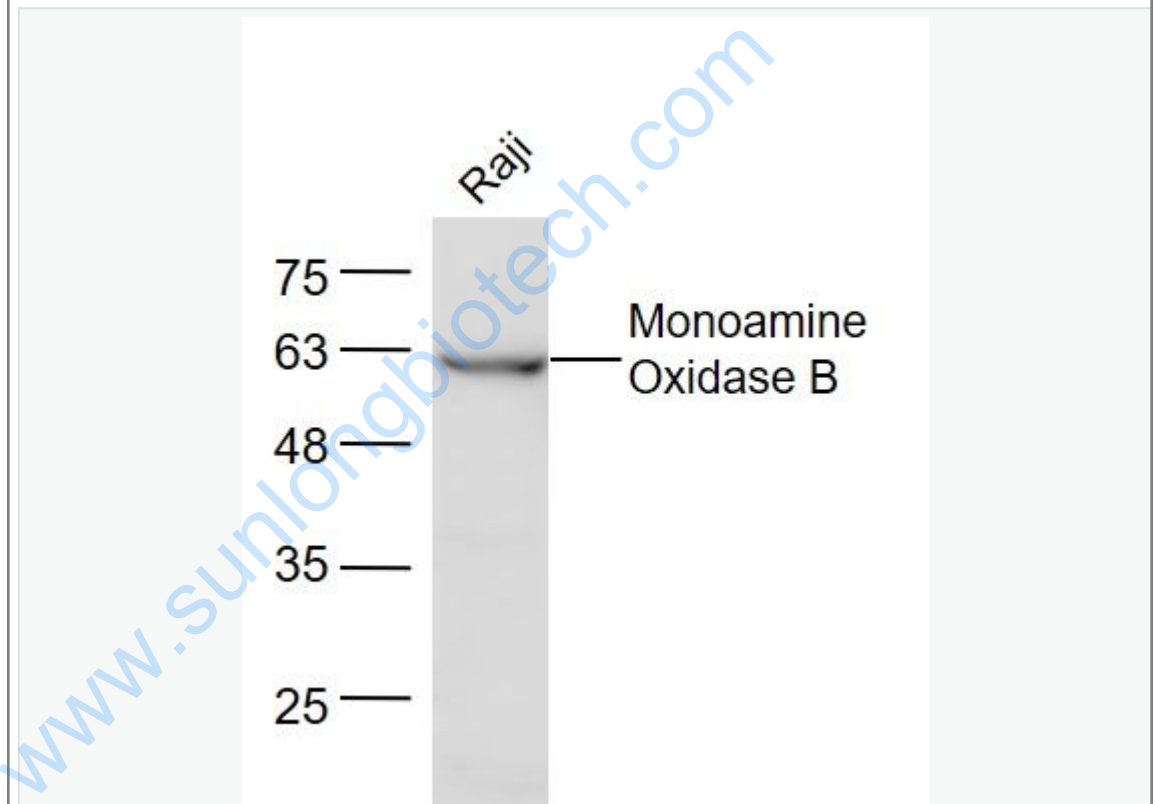
[Unigene: 241656](#) Mouse

[Unigene: 6656](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



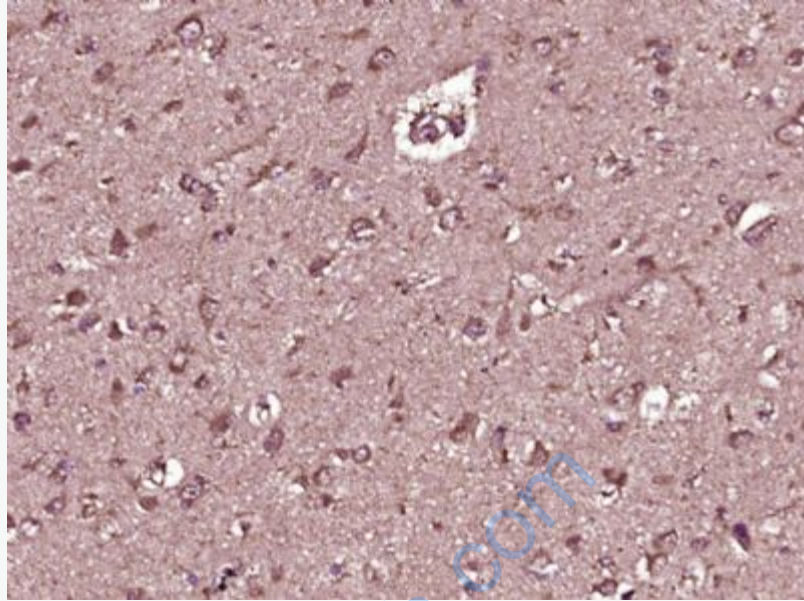
Sample: Raji Cell (Human) Lysate at 40 ug

Primary: Anti-Monoamine Oxidase B (SL11297R) at 1/300 dilution

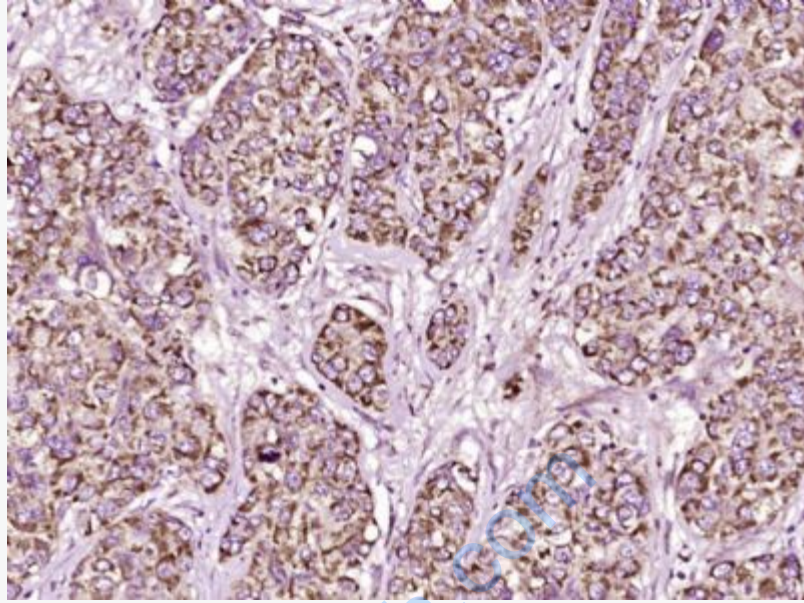
Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL11297R) at 1/5000 dilution

Predicted band size: 59 kD

Observed band size: 59 kD



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Monoamine Oxidase B) Polyclonal Antibody, Unconjugated (SL11297R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Monoamine Oxidase B) Polyclonal Antibody, Unconjugated (SL11297R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.