

**Goat Anti-MAOB Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1650a****Specification**

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**Goat Anti-MAOB Antibody - Product Information**

Application	WB, E, EIA
Primary Accession	<a href="#">P27338</a>
Other Accession	<a href="#">NP_000889</a> , <a href="#">4129</a> , <a href="#">109731 (mouse)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	58763

**Goat Anti-MAOB Antibody - Additional Information****Gene ID** 4129**Other Names**

Amine oxidase [flavin-containing] B, 1.4.3.4, Monoamine oxidase type B, MAO-B, MAOB

**Dilution**

WB~~1:1000

E~~N/A

EIA~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-MAOB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-MAOB Antibody - Protein Information****Name** MAOB ([HGNC:6834](#))**Function**

Catalyzes the oxidative deamination of primary and some secondary amines such as

neurotransmitters, and exogenous amines including the tertiary amine, neurotoxin 1-methyl-4-phenyl-1,2,3,6- tetrahydropyridine (MPTP), with concomitant reduction of oxygen to hydrogen peroxide and participates in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues (PubMed:<a href="http://www.uniprot.org/citations/11049757" target="\_blank">11049757</a>, PubMed:<a href="http://www.uniprot.org/citations/11134050" target="\_blank">11134050</a>, PubMed:<a href="http://www.uniprot.org/citations/20493079" target="\_blank">20493079</a>, PubMed:<a href="http://www.uniprot.org/citations/8316221" target="\_blank">8316221</a>, PubMed:<a href="http://www.uniprot.org/citations/8665924" target="\_blank">8665924</a>). Preferentially degrades benzylamine and phenylethylamine (PubMed:<a href="http://www.uniprot.org/citations/11049757" target="\_blank">11049757</a>, PubMed:<a href="http://www.uniprot.org/citations/11134050" target="\_blank">11134050</a>, PubMed:<a href="http://www.uniprot.org/citations/20493079" target="\_blank">20493079</a>, PubMed:<a href="http://www.uniprot.org/citations/8316221" target="\_blank">8316221</a>, PubMed:<a href="http://www.uniprot.org/citations/8665924" target="\_blank">8665924</a>).

### Cellular Location

Mitochondrion outer membrane; Single-pass type IV membrane protein; Cytoplasmic side

### Goat Anti-MAOB Antibody - Protocols

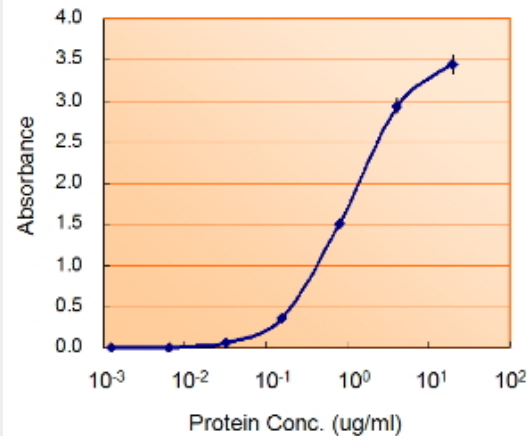
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Goat Anti-MAOB Antibody - Images



AF1650a (0.5 µg/ml) staining of Human Brain (Hippocampus) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1650a (0.5ug/ml) as the reporter with EB002004 as the capture rabbit antibody (2.5ug/ml).

### Goat Anti-MAOB Antibody - Background

The protein encoded by this gene belongs to the flavin monoamine oxidase family. It is a enzyme located in the mitochondrial outer membrane. It catalyzes the oxidative deamination of biogenic and xenobiotic amines and plays an important role in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. This protein preferentially degrades benzylamine and phenylethylamine.

### Goat Anti-MAOB Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Smoking, genes encoding dopamine pathway and risk for Parkinson's disease. Gu Z, et al. Neurosci Lett, 2010 Sep 20. PMID 20603187.

Association study between antipsychotic-induced restless legs syndrome and polymorphisms of monoamine oxidase genes in schizophrenia. Kang SG, et al. Hum Psychopharmacol, 2010 Jul. PMID 20589923.

A case-control study of Parkinson's disease and tobacco use: gene-tobacco interactions. De Palma G, et al. Mov Disord, 2010 May 15. PMID 20461808.

Aggressive behavior, related conduct problems, and variation in genes affecting dopamine turnover. Grigorenko EL, et al. Aggress Behav, 2010 May. PMID 20127808.