

## Product datasheet for **AP20650PU-M**

### Monoamine Oxidase A (MAOA) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of MAO-A protein. (region surrounding Pro347)
Formulation:	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 60 kDa
Gene Name:	monoamine oxidase A
Database Link:	<u><a href="#">Entrez Gene 17161 Mouse</a></u> <u><a href="#">Entrez Gene 29253 Rat</a></u> <u><a href="#">Entrez Gene 4128 Human</a></u> <u><a href="#">P21397</a></u>



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**Background:**

Monoamine oxidase (MAO) is an enzyme of the mitochondrial outer membrane and catalyzes the oxidative deamination of biogenic amines throughout the body. MAO is critical in the neuronal metabolism of catecholamine and indolamine transmitters. Cultured skin fibroblasts show both MAO-A and MAO-B and both MAOs differ in molecular structure. MAO-A, the primary type in fibroblasts, preferentially degrades serotonin and norepinephrine. Only MAO-B is present in platelets and only MAO-A is present in trophoblasts. 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. MAO has been of particular interest to psychiatry and genetics because of the suggestion that low activity is a 'genetic marker' for schizophrenia. The genes which encode MAO-A and MAO-B map to human chromosome Xp11.23.

**Synonyms:**

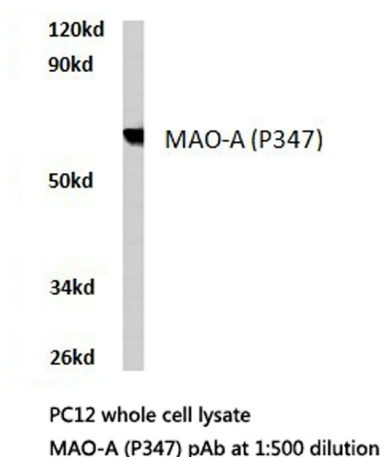
Amine oxidase (flavin-containing) A, monoamine oxidase A

**Protein Families:**

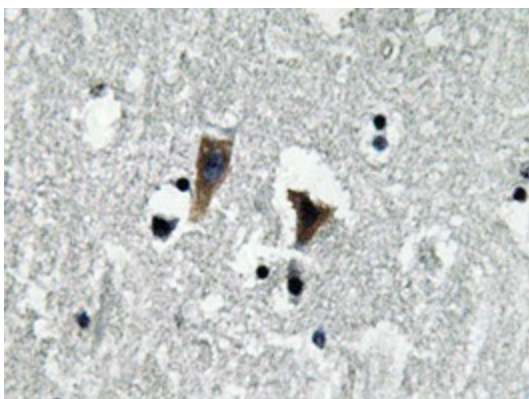
Druggable Genome

**Protein Pathways:**

Arginine and proline metabolism, Drug metabolism - cytochrome P450, Glycine, serine and threonine metabolism, Histidine metabolism, Metabolic pathways, Phenylalanine metabolism, Tryptophan metabolism, Tyrosine metabolism

**Product images:**


Western blot (WB) analysis of MAO-A antibody (Cat.-No.: [AP20650PU-N]) in extracts from PC12 cells.



Immunohistochemistry analyzes of MAO-A antibody (Cat.-No.: [AP20650PU-N]) in paraffin-embedded human brain tissue.