

Immunotag™ MAO-A Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT5705
Product Description	Immunotag™ MAO-A Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	MAO-A
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from MAO-A, at AA range: internal
Specificity	MAO-A Polyclonal Antibody detects endogenous levels of MAO-A protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	MAOA
Accession No.	P21397 Q64133 P21396
Alternate Names	MAOA; Amine oxidase [flavin-containing] A; Monoamine oxidase type A; MAO-A

Antibody Specification

Description	monoamine oxidase A(MAOA) Homo sapiens This gene is one of two neighboring gene family members that encode mitochondrial enzymes which catalyze the oxidative deamination of amines, such as dopamine, norepinephrine, and serotonin. Mutation of this gene results in Brunner syndrome. This gene has also been associated with a variety of other psychiatric disorders, including antisocial behavior. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Jul 2012],
Cell Pathway/ Category	Glycine, serine and threonine metabolism,Arginine and proline metabolism,Histidine metabolism,Tyrosine metabolism,Phenylalanine metabolism,Tryptophan metabolism,Drug metabolism,
Protein Expression	Adipose tissue,Liver,Ovary,Placenta,Testis,
Subcellular Localization	mitochondrion,mitochondrial outer membrane,integral component of membrane,
Protein Function	catalytic activity: $\text{RCH(2)NHR}' + \text{H(2)O} + \text{O(2)} = \text{RCHO} + \text{R'NH(2)} + \text{H(2)O(2)}$.,cofactor:FAD.,disease:Defects in MAOA are the cause of Brunner syndrome (BRUNS) [MIM:300615]. Brunner syndrome is a form of X-linked non-dysmorphic mild mental retardation. Male patients are affected by a syndrome of borderline mental retardation and exhibit abnormal behavior, including disturbed regulation of impulsive aggression. Obligate female carriers have normal intelligence and behavior.,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. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT), norepinephrine and epinephrine.,mass spectrometry: PubMed:11812236,online information:Monoamine oxidase entry,similarity:Belongs to the flavin monoamine oxidase family.,subunit:Monomer, homo- or heterodimer (containing two subunits of similar size). Each subunit contains a covalently bound flavin. Enzymatically active as monomer.,tissue specificity:Heart, liver, duodenum, blood vessels and kidney.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.