
Product Name: MAO-A Rabbit Polyclonal Antibody**Catalog #: APRab13621**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	61kDa

Antigen Information

Gene Name	MAOA
Alternative Names	MAOA; Amine oxidase [flavin-containing] A; Monoamine oxidase type A; MAO-A
Gene ID	4128.0
SwissProt ID	P21397
Immunogen	The antiserum was produced against synthesized peptide derived from human MAO-A. AA range:298-347

Background

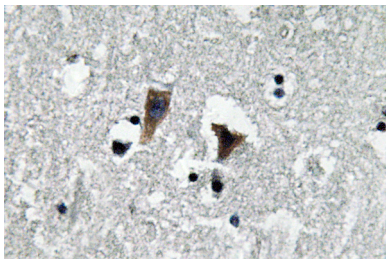
This gene is one of two neighboring gene family members that encode mitochondrial enzymes which catalyze the oxidative

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],catalytic activity: $RCH(2)NHR' + H(2)O + O(2) = RCHO + R'NH(2) + H(2)O(2)$.,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.,

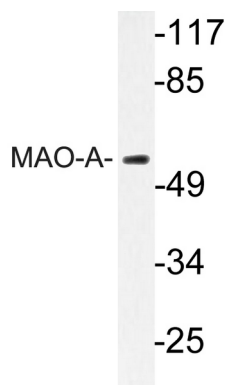
Research Area

Glycine; serine and threonine metabolism;Arginine and proline metabolism;Histidine metabolism;Tyrosine metabolism;Phenylalanine metabolism;Tryptophan metabolism;Drug metabolism;

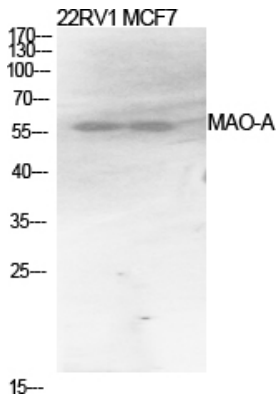
Image Data



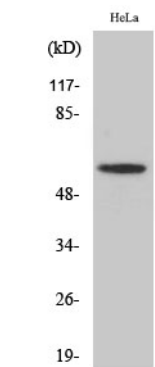
Immunohistochemistry analysis of MAO-A antibody in paraffin-embedded human brain tissue.



Western blot analysis of lysate from HeLa cells, using MAO-A antibody.



Western Blot analysis of various cells using MAO-A Polyclonal Antibody diluted at 1 : 1000



Western Blot analysis of HeLa cells using MAO-A Polyclonal Antibody diluted at 1: 1000