

产品名称: MAO-A Rabbit Polyclonal Antibody
产品货号: APRab13621



产品概述 (Summary)

产品名称 (Production Name)	MAO-A Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

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

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	61kDa

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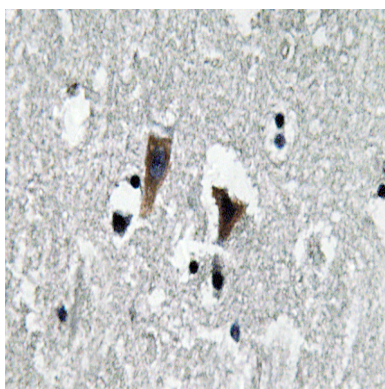
研究背景 (Background)

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: $\text{RCH(2)NHR}' + \text{H(2)O} + \text{O(2)} = \text{RCHO} + \text{R'NH(2)} + \text{H(2)O(2)}$, 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,.

研究领域 (Research Area)

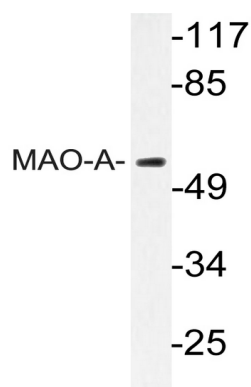
Glycine; serine and threonine metabolism; Arginine and proline metabolism; Histidine metabolism; Tyrosine metabolism; Phenylalanine metabolism; Tryptophan metabolism; Drug metabolism;

图片 (Image Data)

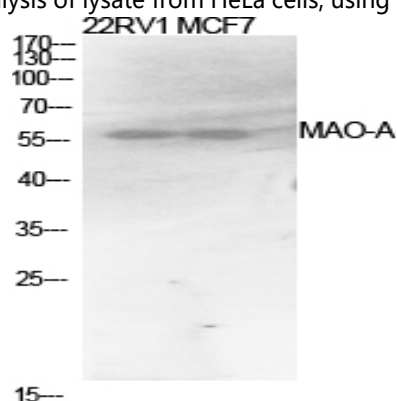


Immunohistochemistry analysis of MAO-A antibody in paraffin-embedded human brain tissue.

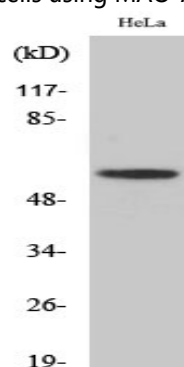
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Western blot analysis of lysate from HeLa cells, using MAO-A antibody.



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

注意事项 (Note)

For research use only .