

ARG40378 anti-MAOA antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MAOA
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MAOA
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 457-493 of Human MAOA. (REVLNGLGKVTEDIWVQEPESKDVPVEITHTFWER)
Conjugation	Un-conjugated
Alternate Names	MAO-A; EC 1.4.3.4; Amine oxidase [flavin-containing] A; Monoamine oxidase type A

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: By heat mediation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	60 kDa	

Properties

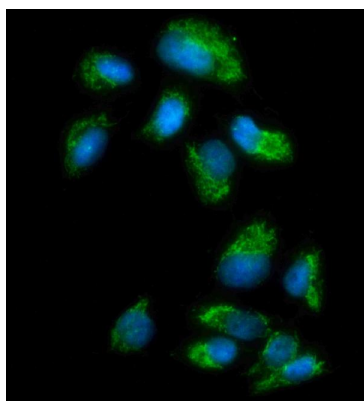
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

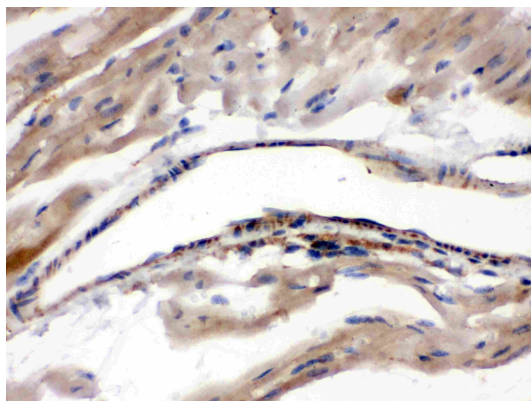
Gene Symbol	MAOA
Gene Full Name	monoamine oxidase A
Background	This gene is one of two neighboring gene family members that encode mitochondrial enzymes which catalyze the oxidative deamination of amines, such as dopamine, norepinephrine, and serotonin. Mutation of this gene results in Brunner syndrome. 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]
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. [UniProt]
Calculated Mw	60 kDa
Cellular Localization	Mitochondrion outer membrane; Single-pass type IV membrane protein; Cytoplasmic side. [UniProt]

Images



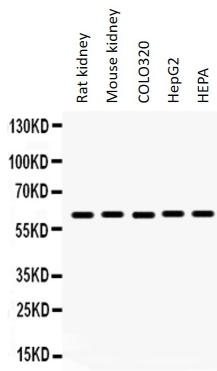
ARG40378 anti-MAOA antibody ICC/IF image

Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG40378 anti-MAOA antibody (green) at 5 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



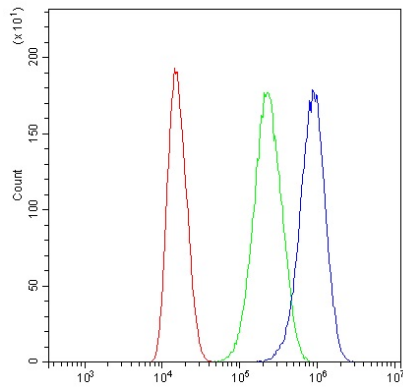
ARG40378 anti-MAOA antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse cardiac muscle stained with ARG40378 anti-MAOA antibody.



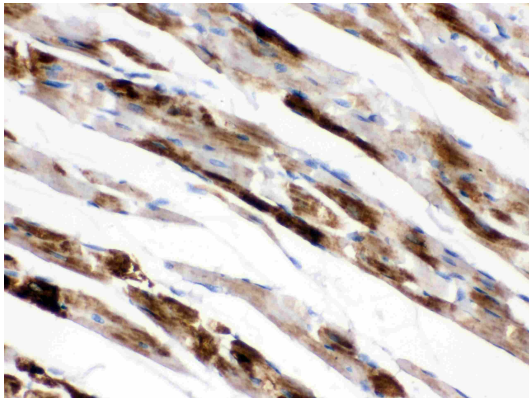
ARG40378 anti-MAOA antibody WB image

Western blot: 50 μ g Rat kidney, 50 μ g of Mouse kidney, 40 μ g of COLO320, 40 μ g of HepG2 and 40 μ g of HEPA whole cell lysates stained with ARG40378 anti-MAOA antibody at 0.5 μ g/ml dilution.



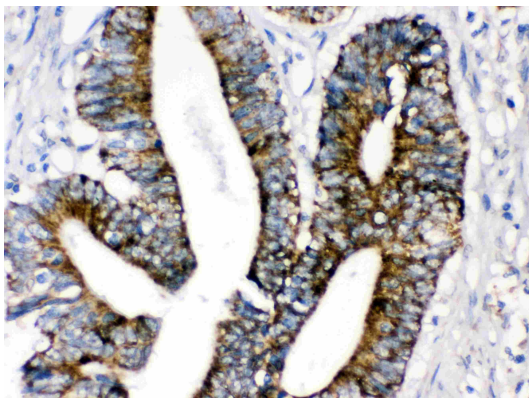
ARG40378 anti-MAOA antibody FACS image

Flow Cytometry: U87 cells were blocked with 10% normal goat serum and then stained with ARG40378 anti-MAOA antibody (blue) at 1 μ g/ 10^6 cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 μ g/ 10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



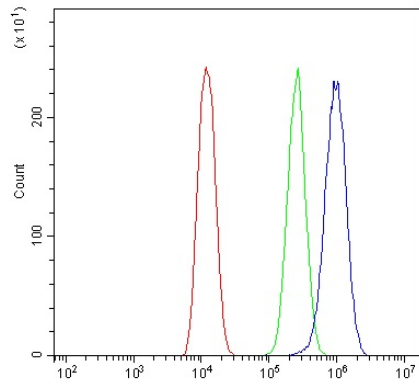
ARG40378 anti-MAOA antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat cardiac muscle stained with ARG40378 anti-MAOA antibody.



ARG40378 anti-MAOA antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue stained with ARG40378 anti-MAOA antibody.



ARG40378 anti-MAOA antibody FACS image

Flow Cytometry: U2OS cells were blocked with 10% normal goat serum and then stained with ARG40378 anti-MAOA antibody (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.