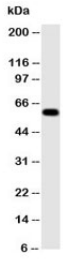
Monoamine Oxidase A Antibody (R30732)

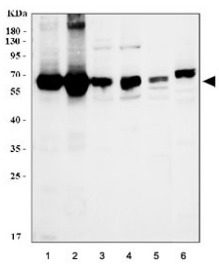
Catalog No.	Formulation	Size
R30732	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

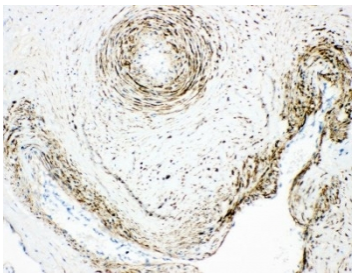
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P21397
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml
Limitations	This Monoamine Oxidase A antibody is available for research use only.



Western blot testing of Monoamine Oxidase A antibody and human placenta lysate. Predicted molecular weight: ~60 kDa.



Western blot testing of 1) human RT4, 2) human placenta, 3) rat heart, 4) rat liver, 5) rat kidney and 6) mouse kidney lysate with Monoamine Oxidase A antibody. Predicted molecular weight: ~60 kDa.



IHC-P: Monoamine Oxidase A antibody testing of human placenta tissue.

Description

Monoamine oxidase A is an enzyme that in humans is encoded by the MAOA gene. It is an isozyme of monoamine oxidase which is also mapped on Xp11.3. MAOA degrades amine neurotransmitters, such as dopamine, norepinephrine, and serotonin. The protein localizes to the outer mitochondrial membrane. Mutation in MAOA results in monoamine oxidase deficiency, or Brunner syndrome. In humans, there is a 30-base repeat sequence repeated in one of several different numbers of times in the promoter region of the gene coding for MAOA. MAOA levels in the brain as measured using positron emission tomography are elevated by an average of 34% in patients with major depressive disorder. Inhibition of the protein prevented apoptosis, and serum starvation of cortical brain cells from Maoa-deficient mice resulted in reduced apoptosis compared with wildtype mice.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Monoamine Oxidase A antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human Monoamine Oxidase A (RTYTIRNEHVDYVDVGGAY) was used as the immunogen for this Monoamine Oxidase A antibody.

Storage

After reconstitution, the Monoamine Oxidase A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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