

MAOA Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	62	Rabbit	#P21397	4128
Product Usage Information	Application					Dilution
	Western Blotting					1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sensitivity	MAOA Antibody recognizes endogenous levels of total MAOA protein.					
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro243 of human MAOA protein. Antibodies are purified by peptide affinity chromatography.					
Background	Monoamine oxidase A (MAOA), a mitochondrial enzyme, catalyzes the degradation of monoamines. Studies show that increased expression of MAOA promotes prostate cancer metastasis by activating the Shh-IL6-RANKL signaling network (1). In addition, MAOA expression in adipose tissue macrophages is upregulated in aging, leading to the reduction of noradrenaline availability in adipose tissue. Decreased levels of noradrenaline contribute to the aging-related decline of catecholamine-induced lipolysis in adipocytes (2). Furthermore, sympathetic neuron-associated macrophages import and degrade norepinephrine via the transporter SLC6A2 and MAOA, respectively, and thus contribute to obesity (3).					
Background References	1. Wu, J.B. et al. (2017) <i>Cancer Cell</i> 31, 368-82. 2. Camell, C.D. et al. (2017) <i>Nature</i> 550, 119-23. 3. Pirzgalska, R.M. et al. (2017) <i>Nat Med</i> 23, 1309-18.					

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human
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