CYP24A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CYP24A1, Polyclonal Antibody
Full Product Name	CYP24A1 Antibody (Rabbit Polyclonal)
Product Gene Name	anti-CYP24A1 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human Predicted: Rat, Mouse
Form/Format	Purified by protein affinity column A containing 0.02% NaN3
Preparation and Storage	Already reconstituted in 200ul sterile H2O. The antibody is stable for at least one year when stored at-20 degree C after reconstitution. Avoid repeated freeze/defrost cycles.
Molecular Weight	43,051 Da
OMIM	126065
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CYP24A1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CYP24A1 antibody	ELISA: 1:20,000-1:80,000 WB: 1:200-1:1,000
Related Product Information for anti-CYP24A1 antibody	Rabbit polyclonal CYP24A1 (1) antibody was raised against a recombinate human CYP24A1 protein 80-255aa (BC109083).
Other Notes	Small volumes of anti-CYP24A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CYP24A1 purchase	MBS8507726 is an antibody targeting CYP24A1. Also known as CYP24A1 Antibody (Rabbit Polyclonal). Reactive in Human Predicted: Rat, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP24A1. It may not necessarily be applicable to this product.

NCBI GI #	80476605
NCBI GeneID	1591
NCBI Accession #	BC109083
UniProt Secondary Accession #	Q15807; Q32ML3; Q5I2W7
UniProt Related Accession #	Q07973
NCBI Official Full Name	Homo sapiens cytochrome P450, family 24, subfamily A, polypeptide 1, mRNA
NCBI Official Synonym Full Names	cytochrome P450 family 24 subfamily A member 1
NCBI Official Symbol	CYP24A1

NCBI Official Synonym Symbols	CP24; HCAI; CYP24; HCINF1; P450-CC24
UniProt Protein Name	1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial
UniProt Synonym Protein Names	Cytochrome P450 24A1; Cytochrome P450-CC24
Protein Family	1,25-dihydroxyvitamin D(3) 24-hydroxylase
UniProt Gene Name	CYP24A1
UniProt Synonym Gene Names	CYP24; 24-OHase; Vitamin D(3) 24-hydroxylase
NCBI Protein Information	1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial
NCBI Summary for CYP24A1	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This mitochondrial protein initiates the degradation of 1,25-dihydroxyvitamin D3, the physiologically active form of vitamin D3, by hydroxylation of the side chain. In regulating the level of vitamin D3, this enzyme plays a role in calcium homeostasis and the vitamin D endocrine system. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CYP24A1	Has a role in maintaining calcium homeostasis. Catalyzes the adrenodoxin-dependent 24-hydroxylation of calcidiol (25-hydroxyvitamin D3) and calcitriol (1-alpha,25-dihydroxyvitamin D3). The enzyme can perform up to 6 rounds of hydroxylation of calcitriol leading to calcitroic acid. It also shows 23-hydroxylating activity leading to 1-alpha,25-dihydroxyvitamin D3-26,23-lactone as end product.
Research Articles on CYP24A1	**1.** Single nucleotide polymorphisms in CYP24A1 has a statistically significant association with risk of the colonic polyps, colon cancer, and ulcerative colitis in a Chinese population.
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