CYP24A1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CYP24A1, Monoclonal Antibody
Full Product Name	CYP24A1 (1,25-dihydroxyvitamin D(3) 24-hydroxylase, Mitochondrial, Vitamin D(3) 24-hydroxylase, 24-OHase, Cytochrome P450 24A1, Cytochrome P450-CC24, CYP24) (MaxLight 490)
Product Gene Name	anti-CYP24A1 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1E1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CYP24A1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,051 Da
OMIM	126065
3D Structure	ModBase 3D Structure for Q32ML3
Immunogen	Partial recombinant corresponding to aa415-514 from human CYP24A1 (NP_000773) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LMLNTQVLGSSEDNFEDSSQFRPERWLQEKEKINPFAHLPFGVGKRMCIGRRLAELQLHLALCWIVRKYDIQATDNEPVEMLHSGTLVPSRELPIAFCQR
Conjugate	MaxLight490
Product Categories/Family for anti-CYP24A1 antibody	Antibodies; Cytochrome
Applications Tested/Suitable for anti-CYP24A1 antibody	FLISA, Western Blot (WB)
Application Notes for anti-CYP24A1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CYP24A1 antibody	CYP24A1 is 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.

Product References and Citations for anti-CYP24A1 antibody	1. Dysregulation of renal vitamin D metabolism in the uremic rat. Helvig CF, Cuerrier D, Hosfield CM, Ireland B, Kharebov AZ, Kim JW, Ramjit NJ, Ryder K, Tabash SP, Herzenberg AM, Epps TM, Petkovich M.Kidney Int. 2010 Jun 9.
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	MBS6200375 is an antibody targeting CYP24A1. Also known as CYP24A1 (1,25-dihydroxyvitamin D(3) 24-hydroxylase, Mitochondrial, Vitamin D(3) 24-hydroxylase, 24-OHase, Cytochrome P450 24A1, Cytochrome P450-CC24, CYP24) (MaxLight 490). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	55770850
NCBI GeneID	1591
NCBI Accession #	NP_000773
UniProt Primary Accession #	Q32ML3
UniProt Secondary Accession #	Q15807; Q32ML3; Q5I2W7
UniProt Related Accession #	Q07973
GenBank Nucleotide #	NM_000782
NCBI Official Full Name	1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial isoform 1
NCBI Official Synonym Full Names	cytochrome P450, family 24, subfamily A, polypeptide 1
NCBI Official Symbol	CYP24A1
NCBI Official Synonym Symbols	CP24; HCAI; CYP24; 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
UniProt Entry Name	CP24A_HUMAN
NCBI Protein Information	1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; 1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; 1,25-@dihydroxyvitamin D3 24-hydroxylase; 24-OHase; cytochrome P450 24A1; cytochrome P450, subfamily XXIV (vitamin D 24-hydroxylase); cytoc
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