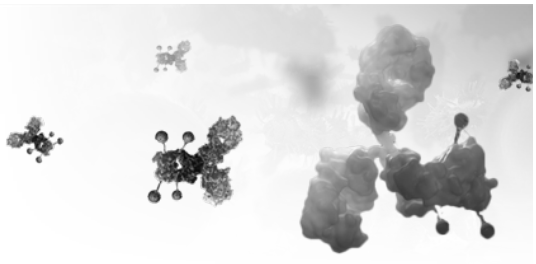

Mouse anti-Human CYP24A1 polyclonal antibody (DPAB-DC693)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	CYP24A1 (NP_000773, 415 a.a. ~ 514 a.a) partial recombinant protein with GST tag. The sequence is LMLNTQVLGSSEDNFEDSSQFRPERWLQEKEKINPFAHLPFGVGKRMCIGRRLAELQLHL ALCWIVRKYDIQATDNEPVEMLHSGTLVPSRELPIAFCQR
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

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Gene Name	CYP24A1 cytochrome P450, family 24, subfamily A, polypeptide 1 [Homo sapiens (human)]
Official Symbol	CYP24A1
Synonyms	CYP24A1; cytochrome P450, family 24, subfamily A, polypeptide 1; CP24; HCAI; CYP24; P450-CC24; 1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; 24-OHase; cytochrome P450 24A1; cytochrome P450-CC24; vitamin D 24-hydroxylase; exo-mitochondrial protein; vitamin D(3) 24-hydroxylase; 1,25-@dihydroxyvitamin D3 24-hydroxylase; cytochrome P450, subfamily XXIV (vitamin D 24-hydroxylase);
Entrez Gene ID	1591
Protein Refseq	NP_000773
UniProt ID	Q07973
Chromosome Location	20q13
Pathway	Biological oxidations; Metabolism; Metabolism of steroid hormones and vitamin D; MicroRNAs in cancer
Function	1-alpha,25-dihydroxyvitamin D3 24-hydroxylase activity; 25-hydroxycholecalciferol-24-hydroxylase activity; heme binding; iron ion binding

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