CYB5R2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CYB5R2, Polyclonal Antibody
Full Product Name	CYB5R2 Antibody; HRP conjugated
Product Gene Name	anti-CYB5R2 antibody
Product Synonym Names	NADH-cytochrome b5 reductase 2; b5R.2; CYB5R2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, mouse
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: CYB5R2 (MBS7002261) HRP Conjugated Antibody: CYB5R2 (MBS7005946)
Molecular Weight	27,043 Da
OMIM	608342
3D Structure	ModBase 3D Structure for Q6BCY4
Immunogen	Recombinant human NADH-cytochrome b5 reductase 2 protein
Conjugation	HRP
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-161509 / sc-161510
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CYB5R2 antibody	ELISA (EIA)
Related Product Information for anti-CYB5R2 antibody	NADH-cytochrome b5 reductases are involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. Responsible for NADH-dependent lucigenin chemiluminescence in spermatozoa by reducing both lucigenin and 2-[4-iodophenyl]-3-[4-nitrophenyl]-5-[2,4-disulfophenyl]-2H tetrazolium monosodium salt (WST-1).
Other Notes	Small volumes of anti-CYB5R2 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 CYB5R2 purchase	MBS7005946 is an antibody targeting CYB5R2. Also known as CYB5R2 Antibody; HRP conjugated. Reactive in Human, mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYB5R2. It may not necessarily be applicable to this product.

NCBI GI #	723586615
NCBI GeneID	51700
NCBI Accession #	NP_001289755.1
UniProt Primary Accession #	Q6BCY4
UniProt Secondary Accession #	Q9BVA3; Q9UF68; Q9UHJ0
UniProt Related Accession #	Q6BCY4
GenBank Nucleotide #	NM_001302826.1
NCBI Official Full Name	NADH-cytochrome b5 reductase 2 isoform 1
NCBI Official Synonym Full Names	cytochrome b5 reductase 2
NCBI Official Symbol	CYB5R2
NCBI Official Synonym Symbols	B5R.2
UniProt Protein Name	NADH-cytochrome b5 reductase 2
Protein Family	NADH-cytochrome b5 reductase
UniProt Gene Name	CYB5R2
UniProt Synonym Gene Names	b5R.2
UniProt Entry Name	NB5R2_HUMAN
NCBI Protein Information	NADH-cytochrome b5 reductase 2
NCBI Summary for CYB5R2	The protein encoded by this gene belongs to the flavoprotein pyridine nucleotide cytochrome reductase family of proteins. Cytochrome b-type NAD(P)H oxidoreductases are implicated in many processes including cholesterol biosynthesis, fatty acid desaturation and elongation, and respiratory burst in neutrophils and macrophages. Cytochrome b5 reductases have soluble and membrane-bound forms that are the product of alternative splicing. In animal cells, the membrane-bound form binds to the endoplasmic reticulum, where it is a member of a fatty acid desaturation complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]
UniProt Comments for CYB5R2	CYB5R2: NADH-cytochrome b5 reductases are involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. Responsible for NADH-dependent lucigenin chemiluminescence in spermatozoa by reducing both lucigenin and 2-[4-iodophenyl]-3-[4-nitrophenyl]-5-[2,4- disulfophenyl]-2H tetrazolium monosodium salt (WST-1). Belongs to the flavoprotein pyridine nucleotide cytochrome reductase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Oxidoreductase; EC 1.6.2.2 Chromosomal Location of Human Ortholog: 11p15.4 Cellular Component: membrane; mitochondrion; nucleus Molecular Function: cytochrome-b5 reductase activity; protein binding Biological Process: sterol biosynthetic process
Research Articles on CYB5R2	**1.** findings suggest that CYB5R2 may be a functional tumor suppressor gene, frequently inactivated by hypermethylation of its promoter in nasopharyngeal carcinoma
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