

Rabbit anti-Human, Mouse CYB5R3 Polyclonal Antibody | anti-CYB5R3 antibody

CYB5R3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324874	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CYB5R3; Polyclonal Antibody; CYB5R3 Antibody; B5R; Cyb5r3; Cytochrome b5 reductase 3; Cytochrome b5 reductase; DIA1; Diaphorase 1; Diaphorase-1; NADH cytochrome b5 reductase 3; NADH-cytochrome b5 reductase 3 membrane-bound form; NADH-cytochrome b5 reductase 3 soluble form; NB5R3_HUMAN; OTTHUMP00000028761; OTTHUMP00000198435; OTTHUMP00000198574; OTTHUMP00000198662; OTTHUMP00000198665; anti-CYB5R3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	CYB5R3 antibody detects endogenous levels of total CYB5R3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	301
Applicable Applications for anti-CYB5R3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Endoplasmic Reticulum; Mitochondrion
Tissue Specificity	Isoform 2 is expressed at late stages of erythroid maturation.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (90%), Horse (100%), Sheep (90%), Rabbit (90%), Dog (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA324874 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA324874 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from COLO cells using CYB5R3 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CYB5R3 antibody	Function: Desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. Subunit Structure: Component of a complex composed of cytochrome b5, NADH-cytochrome b5 reductase (CYB5R3) and MOSC2. Similarity: Belongs to the flavoprotein pyridine nucleotide cytochrome reductase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503327
NCBI GeneID	1727
NCBI Accession #	NP_000389.1
NCBI GenBank Nucleotide #	NM_000398.6
UniProt Accession #	P00387; O75675; Q8TDL8; Q8WTS8; Q9UEN4; Q9UEN5; Q9UL55; Q9UL56; B1AHF2; B7Z7L3
Molecular Weight	Observed: 34 kD Predicted: 35 kDa
NCBI Official Full Name	NADH-cytochrome b5 reductase 3 isoform 1
NCBI Official Synonym Full Names	cytochrome b5 reductase 3
NCBI Official Symbol	CYB5R3
NCBI Official Synonym Symbols	B5R; DIA1
NCBI Protein Information	NADH-cytochrome b5 reductase 3
UniProt Protein Name	NADH-cytochrome b5 reductase 3
UniProt Gene Name	CYB5R3
UniProt Synonym Gene Names	DIA1; B5R; Cytochrome b5 reductase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.