



CYB5R3 rabbit pAb

Cat No.:ES2077

For research use only

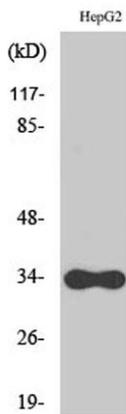
Overview

Product Name	CYB5R3 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human CYB5R3. AA range:137-186
Specificity	CYB5R3 Polyclonal Antibody detects endogenous levels of CYB5R3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	NADH-cytochrome b5 reductase 3
Gene Name	CYB5R3
Cellular localization	[Isoform 1]: Endoplasmic reticulum membrane; Lipid-anchor; Cytoplasmic side. Mitochondrion outer membrane; Lipid-anchor; Cytoplasmic side.; [Isoform 2]: Cytoplasm. Produces the soluble form found in erythrocytes.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	34kD
Human Gene ID	1727
Human Swiss-Prot Number	P00387
Alternative Names	CYB5R3; DIA1; NADH-cytochrome b5 reductase 3; B5R; Cytochrome b5 reductase; Diaphorase-1
Background	This gene encodes cytochrome b5 reductase, which



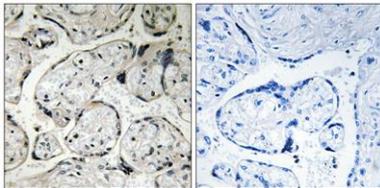


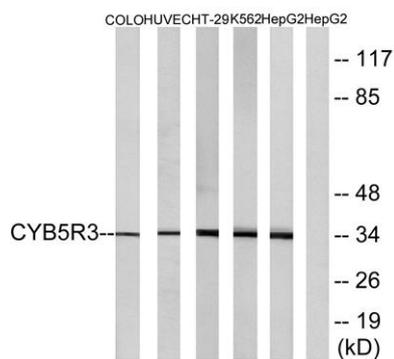
includes a membrane-bound form in somatic cells (anchored in the endoplasmic reticulum, mitochondrial and other membranes) and a soluble form in erythrocytes. The membrane-bound form exists mainly on the cytoplasmic side of the endoplasmic reticulum and functions in desaturation and elongation of fatty acids, in cholesterol biosynthesis, and in drug metabolism. The erythrocyte form is located in a soluble fraction of circulating erythrocytes and is involved in methemoglobin reduction. The membrane-bound form has both membrane-binding and catalytic domains, while the soluble form has only the catalytic domain. Alternate splicing results in multiple transcript variants. Mutations in this gene cause methemoglobinemias. [provided by RefSeq, Jan 2010],



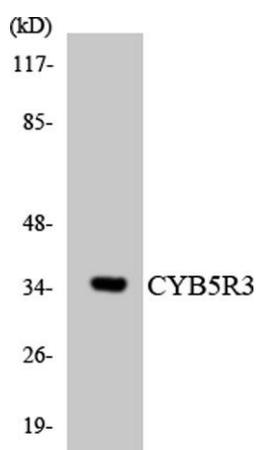
Western Blot analysis of various cells using CYB5R3 Polyclonal Antibody

Immunohistochemistry analysis of paraffin-embedded human placenta tissue, using CYB5R3 Antibody. The picture on the right is blocked with the synthesized peptide.





Western blot analysis of lysates from HepG2, COLO, HUVEC, HT-29, and K562 cells, using CYB5R3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from K562 cells using CYB5R3 antibody.

