



NB5R4 Polyclonal Antibody

Catalog No	YP-Ab-05143
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	CYB5R4 NCB5OR
Immunogen	Synthesized peptide derived from human protein . at AA range: 380-460
Specificity	NB5R4 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NB5R4;CYB5R4 NCB5OR;Cytochrome b5 reductase 4 (EC 1.6.2.2) (Flavoheмоprotein b5/b5R) (b5+b5R) (N-terminal cytochrome b5 and cytochrome b5 oxidoreductase domain-containing protein) (cb5/cb5R)
Observed Band	57kD
Calculated Molecular Weight	57kD
Cell Pathway	Endoplasmic reticulum . Soluble protein.
Tissue Specificity	Widely expressed.
Function	catalytic activity:NADH + 2 ferricytochrome b5 = NAD(+) + H(+) + 2 ferrocytochrome b5.,cofactor:FAD.,function:NADH-cytochrome b5 reductase involved in endolasmic reticulum stress response pathway. Plays a critical role in protecting pancreatic beta-cells against oxidant stress, possibly by protecting the cell from excess buildup of reactive oxygen species (ROS). Reduces a variety of substrates in vitro, such as cytochrome c, feericyanide and methemoglobin.,polymorphism:Variants Arg-187 and Arg-223 do not influence the pathogenesis of non-autoimmune diabetes.,similarity:Belongs to the flavoprotein pyridine nucleotide cytochrome reductase family.,similarity:Contains 1 CS domain.,similarity:Contains 1 cytochrome b5 heme-binding domain.,similarity:Contains 1 FAD-binding FR-type domain.,subcellular location:Soluble



protein.,tissue specificity:Widely expressed.,

Background

NCB5OR is a flavohemoprotein that contains functional domains found in both cytochrome b5 (CYB5A; MIM 613218) and CYB5 reductase (CYB5R3; MIM 613213) (Zhu et al., 1999 [PubMed 10611283]).[supplied by OMIM, Jan 2010],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images