

CYB5R4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55434

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q7L1T6
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59474
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CYB5R4
Epitope Specificity	21-120/521
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum. Soluble protein.
SIMILARITY	Belongs to the flavoprotein pyridine nucleotide cytochrome reductase family. Contains 1 CS domain. Contains 1 cytochrome b5 heme-binding domain. Contains 1 FAD-binding FR-type domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

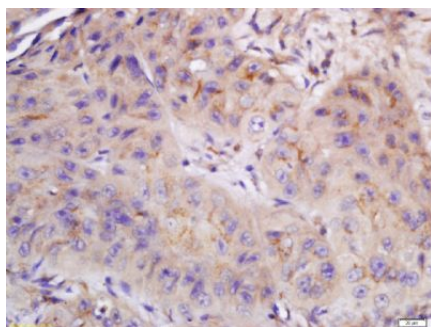
Additional Information

Gene ID	51167
Other Names	Cytochrome b5 reductase 4, 1.6.2.2, Flavohemoprotein b5/b5R, b5+b5R, N-terminal cytochrome b5 and cytochrome b5 oxidoreductase domain-containing protein, cb5/cb5R, CYB5R4, NCB5OR
Target/Specificity	Widely expressed.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

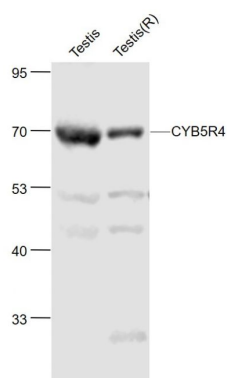
Protein Information

Name	CYB5R4 (HGNC:20147)
Synonyms	NCB5OR
Function	NADH-cytochrome b5 reductase involved in endoplasmic 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, fericyanide and methemoglobin.
Cellular Location	Endoplasmic reticulum Note=Soluble protein
Tissue Location	Widely expressed..

Images



Tissue/cell: human laryngocarcinoma; 4%
Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling
bathing for 15min; Block endogenous peroxidase by 3%
Hydrogen peroxide for 30min; Blocking buffer (normal
goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-CYB5R4 Polyclonal Antibody,
Unconjugated(AP55434) 1:400, overnight at 4°C, followed
by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining



Sample:
Testis (Mouse) Lysate at 40 ug
Testis (Rat) Lysate at 40 ug
Primary: Anti- CYB5R4 (AP55434) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at
1/20000 dilution
Predicted band size: 59 kD
Observed band size: 59 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.