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CYB5R4 Rabbit pAb

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Catalog # AP55434

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q7L1T6
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Chicken, Horse, Sheep
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.
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 (HGNC:20147), NCB5OR
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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

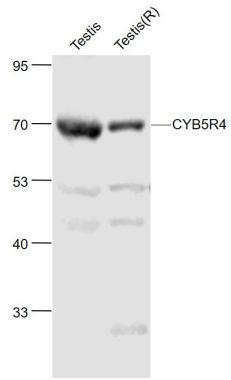
Name	CYB5R4 (HGNC:20147)
Synonyms	NCB5OR

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, feericyanide and methemoglobin.
Cellular Location	Endoplasmic reticulum Note=Soluble protein
Tissue Location	Widely expressed..

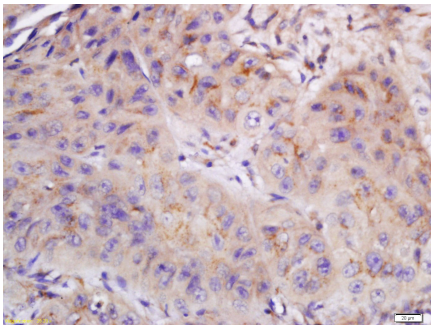
Background

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Images



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



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℃ 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

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