Datasheet for ABIN7600822

anti-CYB5R3 antibody (AA 24-301)

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Overview

Quantity:	100 µg
Target:	CYB5R3
Binding Specificity:	AA 24-301
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYB5R3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-CYB5R3 Antibody Picoband®
Immunogen:	E.coli-derived human CYB5R3 recombinant protein (Position: M24-F301).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CYB5R3 Antibody Picoband® (ABIN7600822). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	CYB5R3
Alternative Name:	CYB5R3 (CYB5R3 Products)
Background:	Synonyms: Protein Wnt-10a, WNT10A Tissue Specificity: In developing embryos, expressed mainly in the choroid plexus, paraventricular neuroepithelium, placenta and kidney glomeruli. Also found in bronchial epithelium, adrenal gland and in seminiferous tubules of testis. High expression of VEGF continues in kidney glomeruli and choroid plexus in adults. Background: NADH-cytochrome b5 reductase 3 is an enzyme that in humans is encoded by the CYB5R3 gene. 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.
Molecular Weight:	34 kDa
Gene ID:	1727
UniProt:	P00387
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, -

1. Aalfs, C. M., Salieb-Beugelaar, G. B., Wanders, R. J. A., Mannens, M. M. A. M., Wijburg, F. A. A case of methemoglobinemia type II due to NADH-cytochrome b5 reductase deficiency: determination of the molecular basis. Hum. Mutat. 16: 18-22, 2000. 2. Board, P. G., Pidcock, M. E. Methaemoglobinaemia resulting from heterozygosity for two NADH-methaemoglobin reductase variants: characterization as NADH-ferricyanide reductase. Brit. J. Haemat. 47: 361-370, 1981. 3. Bull, P. C., Shephard, E. A., Povey, S., Santisteban, I., Phillips, I. R. Cloning and

Application Details

	chromosomal mapping of human cytochrome b(5) reductase (DIA1). Ann. Hum. Genet. 52: 263-268, 1988.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.