

Datasheet for ABIN5000786

anti-CYB5R3 antibody (AbBy Fluor® 680)



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Quantity:	100 μL	
Target:	CYB5R3	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CYB5R3 antibody is conjugated to AbBy Fluor® 680	
Application:	Western Blotting (WB)	

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CYB5R3	
Isotype:	lgG	
Cross-Reactivity:	Mouse	
Predicted Reactivity:	Predicted Reactivity: Human,Rat,Dog,Cow,Sheep,Pig,Horse,Chicken	
Purification:	Purified by Protein A.	

Target Details

Target:	CYB5R3
Alternative Name:	CYB5R3 (CYB5R3 Products)
Background:	Synonyms: B5R, Cyb5r3, Cytochrome b5 reductase 3, Cytochrome b5 reductase, DIA1,
	Diaphorase 1, Diaphorase-1, NADH cytochrome b5 reductase 3, NADH-cytochrome b5

reductase 3 membrane-bound form, NADH-cytochrome b5 reductase 3 soluble form, NB5R3_HUMAN, OTTHUMP0000028761, OTTHUMP00000198435, OTTHUMP00000198574, OTTHUMP00000198662, OTTHUMP00000198665.

Background: CYB5R3 is a 301 amino acid protein encoded by the human gene CYB5R3. CYB5R3 belongs to the flavoprotein pyridine nucleotide cytochrome reductase family and has two naturally occuring isoforms. Isoform 1 is anchored to the cytoplasmic side of the endoplasmic reticulum membrane and mitochondrion outer membrane, while isoform 2 is the soluble form found in erythrocytes. CYB5R3 is involved in the desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism and, in erythrocytes, methemoglobin reduction. A serine residue at position 117 seems to only be found in persons of African origin. The allele frequency is 0.23 in African Americans. It is not found in Caucasians, Asians, Indo-Aryans or Arabs. This difference seems to have no effect on the enzyme activity. Defects in CYB5R3 are the cause of hereditary methemoglobinemia (HM). There are three forms of this disease: type 1 (HM1), in which the enzyme is only deficient in erythrocytes with a mild cyanosis, type 2 (HM2), in which the enzyme is completely deficient, and type 3 (HM3), where the deficiency is seen in all blood cells. Type 2 is a severe form accompanied by mental retardation and neurological impairment.

Gene ID:

1727

Pathways:

SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months