

Datasheet for ABIN1386135

anti-Cytochrome B Reductase 1 antibody (AA 51-150)[Go to Product page](#)**2** Images**1** Publication

Overview

Quantity:	100 µL
Target:	Cytochrome B Reductase 1 (CYBRD1)
Binding Specificity:	AA 51-150
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cytochrome B Reductase 1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CYBR1/Cytochrome b reductase 1
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Pig,Horse,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	Cytochrome B Reductase 1 (CYBRD1)
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Target Details

Abstract:	CYBRD1 Products
Background:	<p>Synonyms: DCYTB, FRRS3, CYB561A2, Cytochrome b reductase 1, Duodenal cytochrome b, Ferric-chelate reductase 3, CYBRD1</p> <p>Background: Ferric-chelate reductase that reduces Fe(3+) to Fe(2+). Present at the brush border of duodenal enterocytes where it probably reduces dietary Fe(3+) thereby facilitating its transport into the mucosal cells. Uses ascorbate as electron donor. May be involved in extracellular ascorbate recycling in erythrocyte membranes. May also act as a ferrireductase in airway epithelial cells.</p>
Gene ID:	79901
UniProt:	Q53TN4
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

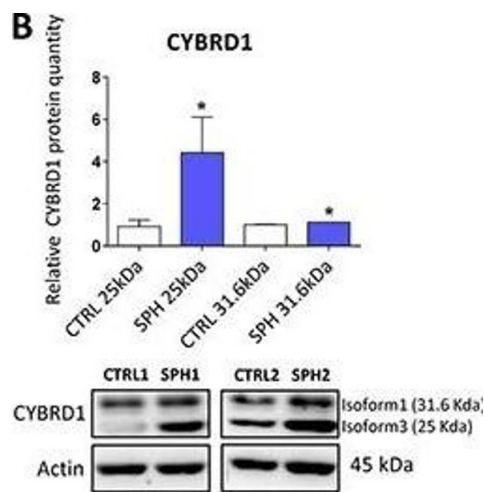
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Publications

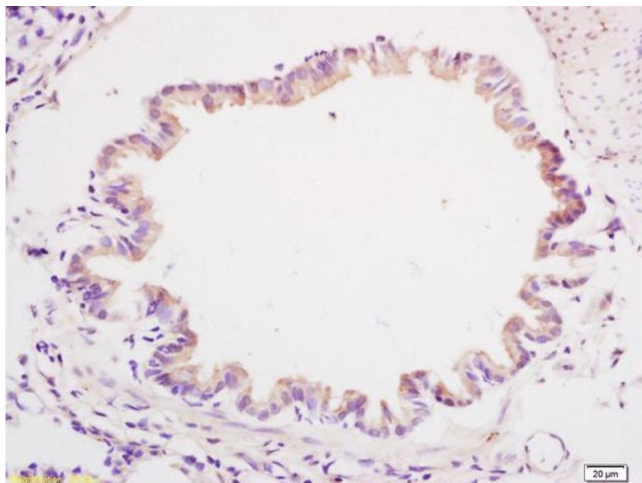
Product cited in: Rychtarcikova, Lettlova, Tomkova, Korenkova, Langerova, Simonova, Zjablovskaja, Alberich-Jorda, Neuzil, Truksa: "Tumor-initiating cells of breast and prostate origin show alterations in the expression of genes related to iron metabolism." in: **Oncotarget**, Vol. 8, Issue 4, pp. 6376-6398, (2016) ([PubMed](#)).

Images



Western Blotting

Image 1. Expression of cytochrome b reductase (CYBRD1) and transferrin receptor 1 (TFR1) participating in iron uptake is higher in tumor-initiating cells (TICs) Expression of the CYBRD1 gene at the mRNA level in breast non-malignant cell line MCF10A, in TICs derived from breast cancer cell lines MCF-7, BT-474, T-47D and ZR-75-30 as well as from prostate cancer cell lines DU-145 and LNCaP has been determined (A) together with protein levels in the MCF-7 cell line (CTRL) and MCF-7 derived spheres (SPH) (B). Similarly, the expression of the TFRC gene at the mRNA (C) level as well as protein level (D) in TICs is documented. Experiments were performed at least in triplicate, standard error is SEM, p-values lower than 0.05 are denoted with a star and were calculated by the GenEx software using the unpaired t-test and plotted with GraphPad prism software. The protein expression was quantified by the image J software from 2 to 5 independent samples, standard error is SEM, p-values lower than 0.05 are denoted with a star and were calculated and plotted in GraphPad prism, using the unpaired t-test. - figure provided by CiteAb. Source: PMID28031527



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat brain tissue labeled with Anti-CYBR1 Polyclonal Antibody, Unconjugated (ABIN1386135) at 1:200, followed by conjugation to the secondary antibody and DAB staining