# CYBRD1 (G-13): sc-161021



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## **BACKGROUND**

CYBRD1 (cytochrome b reductase 1), also known as DCYTB (duodenal cytochrome b) or FRRS3 (ferric-chelate reductase 3), is a 286 amino acid ferric-chelate reductase and multi-pass membrane protein that reduces Fe<sup>3+</sup> to Fe<sup>2+</sup>. A member of the cytochrome b561 family, CYBRD1 is expressed in respiratory epithelium and duodenal brush border membrane, where it is suggested to assist in the transport of dietary iron into mucosal cells. CYBRD1 is also hypothesized to function as a ferrireductase in airway epithelial cells and may participate in erythrocyte membrane ascorbate recycling. CYBRD1 is encoded by a gene located on human chromosome 2q31.1, variations of which may contribute to modifications in iron overload expression.

# **REFERENCES**

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## **CHROMOSOMAL LOCATION**

Genetic locus: CYBRD1 (human) mapping to 2q31.1.

## **SOURCE**

CYBRD1 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CYBRD1 of human origin.

### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161021 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

CYBRD1 (G-13) is recommended for detection of CYBRD1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CYBRD1 siRNA (h): sc-94877, CYBRD1 shRNA Plasmid (h): sc-94877-SH and CYBRD1 shRNA (h) Lentiviral Particles: sc-94877-V.

Molecular Weight of CYBRD1: 30-35 kDa.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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