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DCYTB / CYBRD1 Antibody (C-Terminus)

Goat Polyclonal Antibody
Catalog # ALS13423

Specification

DCYTB / CYBRD1 Antibody (C-Terminus) - Product Information

Application	**IHC-P, E**
Primary Accession	Q53TN4
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**32kDa KDa**
Dilution	**IHC-P~~N/A** **E~~N/A**

DCYTB / CYBRD1 Antibody (C-Terminus) - Additional Information

Gene ID 79901

Other Names
Cytochrome b reductase 1, 1.-.-.-, Duodenal cytochrome b, Ferric-chelate reductase 3, CYBRD1, DCYTB, FRRS3

Target/Specificity
Human CYBRD1 / DCYTB. This antibody is expected to recognise isoform 1 (NP_079119.3) only.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
DCYTB / CYBRD1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

DCYTB / CYBRD1 Antibody (C-Terminus) - Protein Information

Name CYBRD1 (HGNC:20797)

Function
Plasma membrane reductase that uses cytoplasmic ascorbate as an electron donor to reduce extracellular Fe(3+) into Fe(2+) (PubMed:30272000). Probably functions in dietary iron absorption at the brush border of duodenal enterocytes by producing Fe(2+), the divalent form of iron that can be transported into enterocytes (PubMed:30272000). It is also able to reduce extracellular monodehydro- L-ascorbate and may be involved in extracellular ascorbate regeneration by erythrocytes in blood (PubMed:17068337). May also act as a ferrireductase in airway epithelial cells (Probable). May also function as a cupric transmembrane reductase (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Localized at the brush border of duodenal cells.

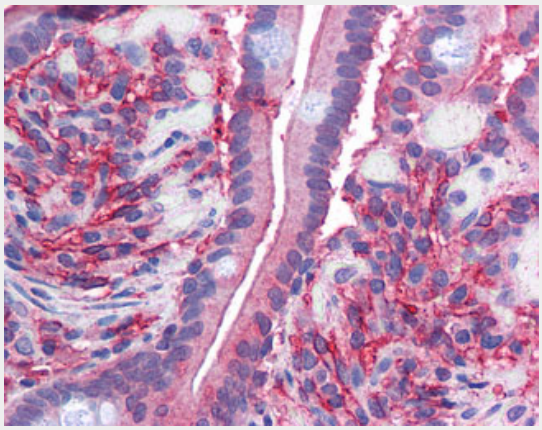
Tissue Location
Present in erythrocyte membranes (at protein level). Also expressed in respiratory epithelium

DCYTB / CYBRD1 Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DCYTB / CYBRD1 Antibody (C-Terminus) - Images



Anti-CYBRD1 / DCYTB antibody IHC of human small intestine.

DCYTB / CYBRD1 Antibody (C-Terminus) - 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.

DCYTB / CYBRD1 Antibody (C-Terminus) - References

Wiemann S.,et al.Genome Res. 11:422-435(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
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Zaahl M.G.,et al.Hum. Genet. 115:409-417(2004).