

CYBR1 rabbit pAb

Catalog No :	YT7604
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	CYBR1
Fields :	>>Mineral absorption
Gene Name :	CYBRD1 DCYTB FRRS3
Protein Name :	CYBR1
Human Gene Id :	79901
Human Swiss Prot No :	Q53TN4
Mouse Gene Id :	73649
Mouse Swiss Prot No :	Q925G2
Rat Gene Id :	295669
Rat Swiss Prot No :	Q5RKJ2
Immunogen :	Synthesized peptide derived from human CYBR1 AA range: 41-91
Specificity :	This antibody detects endogenous levels of CYBR1 at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1[?]500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 31kD

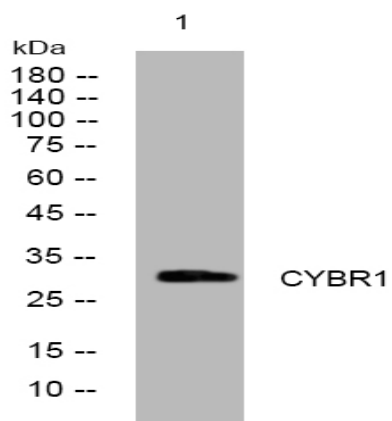
Background : This gene is a member of the cytochrome b(561) family that encodes an iron-regulated protein. It highly expressed in the duodenal brush border membrane. It has ferric reductase activity and is believed to play a physiological role in dietary iron absorption. [provided by RefSeq, Jul 2008],

Function : cofactor: Binds 2 heme groups non-covalently., disease: Defects in CYBRD1 may be a cause of primary hereditary hemochromatosis (HFE). HFE is an iron-loading disorder characterized by iron accumulation in parenchymal cells. Iron accumulation usually results in tissue damage and causes cirrhosis of the liver, diabetes mellitus, arthropathy, cardiomyopathy, endocrine abnormalities and an increased risk of hepatocellular carcinoma., function: 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., induction: By iron deficiency (at protein level)., similarity: Contains 1 cytochrom

Subcellular Location : Cell membrane ; Multi-pass membrane protein . Apical cell membrane ; Multi-pass membrane protein . Localized at the brush border of duodenal cells. .

Expression : Present in erythrocyte membranes (at protein level). Also expressed in respiratory epithelium.

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Western blot analysis of lysates from 3T3 cells, primary antibody was diluted at 1:1000, 4° over night