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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB06633 - Goat Anti-Cytochrome b reductase 1 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: CYBRD1, DCYTB, FLJ23462, cytochrome b reductase 1, duodenal cytochrome b, FRRS3, ferric-chelate reductase 3

Official Symbol: CYBRD1

Accession Number(s): NP_079119.3

Human GeneID(s): [79901](#)

Important Comments: This antibody is expected to recognise isoform 1 (NP_079119.3) only.

Immunogen

Peptide with sequence CRNLALDEAGQRSTM, from the C Terminus of the protein sequence according to NP_079119.3.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:16000.

Western blot: Experiments gave bands at approx 35kDa and a 26+28kDa doublet in human colon lysate after 0.1µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the bands we observe given the calculated size of 31.6kDa according to NP_079119. The detected bands were all successfully blocked by incubation with the immunizing peptide (and BLAST results with the immunizing peptide sequence did not identify any other proteins to explain the additional bands).

IHC: In paraffin embedded Human Testis shows membranous staining in primarily myofibroblasts of the basement membrane surrounding the seminiferous tubules. Recommended concentration: 2-5µg/ml. Paraffin embedded Human Small Intestine. Recommended concentration: 2.5ug/ml.

Species Reactivity

Tested: Human

Expected from sequence similarity: Human, Dog, Pig, Cow

Specific References

This antibody has been successfully used in WB on Human:

Dostalikova-Cimburova M, Balusikova K, Kratka K, Chmelikova J, Hejda V, Hnanicek J, Neubauerova J, Vranova J, Kovar J, Horak J.

Role of duodenal iron transporters and hepcidin in patients with alcoholic liver disease. J Cell Mol Med. 2014 Jun 3.

PMID: 24894955

This antibody has been successfully used in WB on Human:

Balusikova K, Neubauerova J, Dostalikova-Cimburova M, Horak J, Kovar J.

Differing expression of genes involved in non-transferrin iron transport across plasma

membrane in various cell types under iron deficiency and excess.

Mol Cell Biochem. 2009 Jan;321(1-2):123-33.

PMID: 18830567

This antibody has been successfully used in WB on Human:

Dostalíkova-Cimburová M, Kratka K, Balusíková K, Chmelíková J, Hejda V, Hnaníček J, Neubauerová J, Vranová J, Kovář J, Horák J.

Duodenal expression of iron transport molecules in patients with hereditary hemochromatosis or iron deficiency.

J Cell Mol Med. 2012 Aug;16(8):1816-26.

PMID: 21973163

EB06633 (2.5µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

EB06633 (2.5µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.