

Hemopexin (D-17): sc-49964

BACKGROUND

Hemopexin (also known as β 1B glycoprotein or HPX) is a 462 amino acid protein that transports heme to the liver for breakdown and iron recovery. After releasing the heme molecule, the free Hemopexin returns to circulation. It is expressed by the liver and is secreted in plasma. Hemopexin may play a role in the maintenance of metal ion homeostasis and binds the following metal ions in order of highest to lowest affinity: nickel, copper, cobalt, zinc and manganese. Hemopexin can act as a toxic protease that leads to proteinuria and glomerular alterations, which are characteristics of minimal changes disease (MCD), a common cause of nephrotic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HPX (human) mapping to 11p15.5-p15.4; Hpxn (mouse) mapping to 7 F1.

SOURCE

Hemopexin (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Hemopexin of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-49964 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Hemopexin (D-17) is recommended for detection of Hemopexin 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 Hemopexin siRNA (h): sc-60778, Hemopexin shRNA Plasmid (h): sc-60778-SH and Hemopexin shRNA (h) Lentiviral Particles: sc-60778-V.

Molecular Weight of Hemopexin: 80-85 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.

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.



Try **Hemopexin (F-12): sc-373675** or **Hemopexin (ABS 013-32): sc-59556**, our highly recommended monoclonal alternatives to Hemopexin (D-17).