

# Hemopexin (H-300): sc-134443

## BACKGROUND

Hemopexin (also known as  $\beta$  1B glycoprotein or HPX), a 462 amino acid protein, functions as a scavenger and transporter of toxic plasma heme, transporting heme to the liver for breakdown and iron recovery. Hemopexin cooperates with Albumin, Haptoglobin and high and low density lipoproteins to trap toxic plasma heme, which occurs as the result of the degradation of hemoglobin, myoglobin and enzymes with heme prosthetic groups, and to ensure the clearance of toxic heme from the plasma. 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. It binds the following metal ions in order of highest to lowest affinity: nickel, copper, cobalt, zinc and manganese. Hemopexin can also 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

1. Bakker, W.W., et al. 2005. Altered activity of plasma Hemopexin in patients with minimal change disease in relapse. *Pediatr. Nephrol.* 20: 1410-1415.
2. Bakker, W.W., et al. 2005. Protease activity of plasma Hemopexin. *Kidney Int.* 68: 603-610.

## CHROMOSOMAL LOCATION

Genetic locus: HPX (human) mapping to 11p15.4; Hpx (mouse) mapping to 7 E3.

## SOURCE

Hemopexin (H-300) is a rabbit polyclonal antibody raised against amino acids 163-462 mapping at the C-terminus of Hemopexin of human origin.

## PRODUCT

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

## APPLICATIONS

Hemopexin (H-300) is recommended for detection of Hemopexin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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 siRNA (m): sc-60779, Hemopexin shRNA Plasmid (h): sc-60778-SH, Hemopexin shRNA Plasmid (m): sc-60779-SH, Hemopexin shRNA (h) Lentiviral Particles: sc-60778-V and Hemopexin shRNA (m) Lentiviral Particles: sc-60779-V.

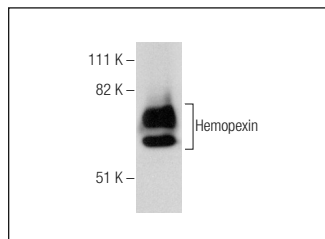
Molecular Weight of Hemopexin: 80-85 kDa.

Positive Controls: human liver extract: sc-363766.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Hemopexin (H-300): sc-134443. Western blot analysis of Hemopexin expression in human liver tissue extract.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **Hemopexin (F-12): sc-373675** or **Hemopexin (ABS 013-32): sc-59556**, our highly recommended monoclonal alternatives to Hemopexin (H-300).