**BACKGROUND**

Hemopexin (also known as β 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. Hemopexin may 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**


**CHROMOSOMAL LOCATION**

Genetic locus: HPX (human) mapping to 11p15.4.

**SOURCE**

Hemopexin (F-12) is a mouse monoclonal antibody raised against amino acids 163-462 mapping at the C-terminus of Hemopexin of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Hemopexin (F-12) is available conjugated to agarose (sc-373675 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373675 HRP), 200 µg/ml, for WB, IHC/IP and ELISA; to either phycoerythrin (sc-373675 PE), fluorescein (sc-373675 FITC), Alexa Fluor® 488 (sc-373675 AF488), Alexa Fluor® 546 (sc-373675 AF546), Alexa Fluor® 594 (sc-373675 AF594) or Alexa Fluor® 647 (sc-373675 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FCM; and to either Alexa Fluor® 680 (sc-373675 AF680) or Alexa Fluor® 790 (sc-373675 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Hemopexin (F-12) is recommended for detection of Hemopexin of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 1:30-1:300).

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.

Positive Controls: human plasma extract: sc-364374 or human liver extract: sc-363766.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG HRP-FITC: sc-516140 or m-IgG HRP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**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 for detailed protocols and support products.