

p22HBP (E-14): sc-66494

BACKGROUND

p22HBP, also known as HEBP1 (heme binding protein 1), HBP or HEBP, is a 189 amino acid intracellular tetrapyrrole-binding protein that assists in prevention of cellular toxicity by removing free porphyrinogens from the cell. Existing as a monomer, p22HBP localizes to cytoplasm and contains a 21 amino acid chemoattractant within its N-terminus that functions as a natural ligand for FPR3. p22HBP is a member of the HEBP family and binds N-methylprotoporphyrin and metalloporphyrins with similar affinity to porphyrinogens. The gene encoding p22HBP maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

CHROMOSOMAL LOCATION

Genetic locus: HEBP1 (human) mapping to 12p13.1; Hebp1 (mouse) mapping to 6 G1.

SOURCE

p22HBP (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of p22HBP of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-66494 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

p22HBP (E-14) is recommended for detection of p22HBP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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 1:30-1:3000).

p22HBP (E-14) is also recommended for detection of p22HBP in additional species, including equine.

Suitable for use as control antibody for p22HBP siRNA (h): sc-62739, p22HBP siRNA (m): sc-62740, p22HBP shRNA Plasmid (h): sc-62739-SH, p22HBP shRNA Plasmid (m): sc-62740-SH, p22HBP shRNA (h) Lentiviral Particles: sc-62739-V and p22HBP shRNA (m) Lentiviral Particles: sc-62740-V.

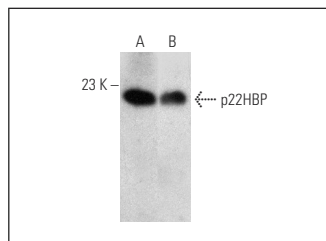
Molecular Weight of p22HBP: 22 kDa.

Positive Controls: p22HBP (h3): 293T Lysate: sc-111835, HeLa whole cell lysate: sc-2200 or Y79 cell lysate: sc-2240.

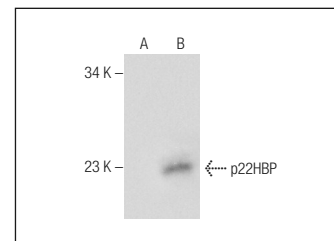
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



p22HBP (E-14): sc-66494. Western blot analysis of p22HBP expression in HeLa (A) and Y79 (B) whole cell lysates.



p22HBP (E-14): sc-66494. Western blot analysis of p22HBP expression in non-transfected: sc-117752 (A) and human p22HBP transfected: sc-111835 (B) 293T whole cell lysates.

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.

MONOS
Satisfaction
Guaranteed

Try **p22HBP (E-3): sc-398750** or **p22HBP (B-3): sc-398612**, our highly recommended monoclonal alternatives to p22HBP (E-14).