

HIP2 (H-100): sc-366111

BACKGROUND

HIP1 (huntingtin interacting protein 1), a membrane-associated protein, and HIP2 bind specifically to the N-terminus of human huntingtin. HIP1 and HIP2 are ubiquitously expressed in different brain regions at low levels and exhibit nearly identical subcellular fractionation as huntingtin. The huntingtin-HIP1 interaction is inversely correlated to the polyglutamine length in huntingtin, suggesting that loss of normal huntingtin-HIP1 interaction may compromise the membrane-cytoskeletal integrity in the brain. Conversely, the huntingtin-HIP2 interaction is not affected by the polyglutamine length in the huntingtin protein. However, both HIP1 and HIP2 play an important role in the pathogenesis of huntington disease (HD).

REFERENCES

1. Sun, H., et al. 1992. Effects of McAbs HIP2, APT4 and HI117 on the human platelet cytoskeleton. *Zhongguo Yi Xue Ke Xue Yuan Xue Bao* 14: 1-5.
2. Kalchman, M.A., et al. 1996. Huntingtin is ubiquitinated and interacts with a specific ubiquitin-conjugating enzyme. *J. Biol. Chem.* 271: 19385-19394.

CHROMOSOMAL LOCATION

Genetic locus: UBE2K (human) mapping to 4p14; Ube2k (mouse) mapping to 5 C3.1.

SOURCE

HIP2 (H-100) is a rabbit polyclonal antibody raised against amino acids 1-100 mapping at the N-terminus of HIP2 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.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

HIP2 (H-100) is recommended for detection of HIP2 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).

HIP2 (H-100) is also recommended for detection of HIP2 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for HIP2 siRNA (h): sc-41984, HIP2 siRNA (m): sc-41985, HIP2 shRNA Plasmid (h): sc-41984-SH, HIP2 shRNA Plasmid (m): sc-41985-SH, HIP2 shRNA (h) Lentiviral Particles: sc-41984-V and HIP2 shRNA (m) Lentiviral Particles: sc-41985-V.

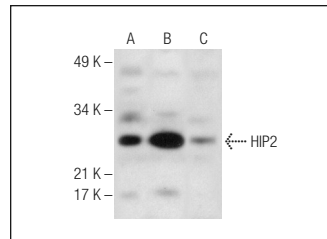
Molecular Weight of HIP2: 22 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, SP2/0 whole cell lysate: sc-364795 or human spleen extract: sc-363779.

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



HIP2 (H-100): sc-366111. Western blot analysis of HIP2 expression in Jurkat (A) and SP2/0 (B) whole cell lysates and human spleen tissue extract (C).

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **HIP2 (H-6): sc-390339** or **HIP2 (C-5): sc-390138**, our highly recommended monoclonal alternatives to HIP2 (H-100).