

HIP2 (A-15): sc-50733

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

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CHROMOSOMAL LOCATION

Genetic locus: HIP2 (human) mapping to 4p14; Hip2 (mouse) mapping to 5 C3.1.

SOURCE

HIP2 (A-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of HIP2 of human origin.

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-50733 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HIP2 (A-15) is recommended for detection of HIP2 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

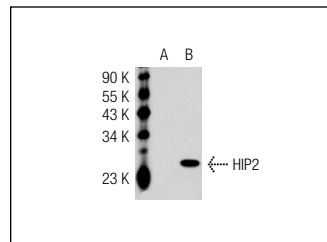
HIP2 (A-15) is also recommended for detection of HIP2 isoforms 1 and 2 in additional species, including equine, canine, bovine, porcine and avian.

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.

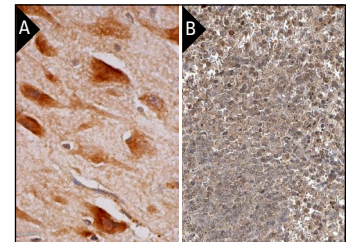
Molecular Weight of HIP2: 22 kDa.

Positive Controls: HIP2 (h): 293T Lysate: sc-116355 or Jurkat whole cell lysate: sc-2204.

DATA



HIP2 (A-15): sc-50733. Western blot analysis of HIP2 expression in non-transfected: sc-117752 (A) and human HIP2 transfected: sc-116355 (B) 293T whole cell lysates.



HIP2 (A-15): sc-50733. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cerebral cortex tissue showing cytoplasmic and nuclear staining of neuronal cells, glial cells and endothelial cells (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing nuclear and cytoplasmic staining of cells in red and white pulps. Kindly provided by The Swedish Human Protein Atlas (HPA) program (B).

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.



Try **HIP2 (H-6): sc-390339** or **HIP2 (C-5): sc-390138**, our highly recommended monoclonal alternatives to HIP2 (A-15).