SANTA CRUZ BIOTECHNOLOGY, INC.

# Hippi (D-6): sc-390120

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## BACKGROUND

Programmed neuronal cell death is a feature of neurodegenerative disorders such as Alzheimer's and Huntington's disease, which occur later in human life. Huntington's disease at the molecular and cell level is characterized by polyglutamine expansion of the protein huntingtin (Htt) that leads to apoptotis-mediated neurodegenerative loss of medium spiny neurons throughout the striatum. Polyglutamine expansion reduces the level of association between Hip-1 and Htt, thereby increasing levels of free Hip-1 that then can be the candidate protein Hippi (Hip-1 protein interactor). The Hippi-Hip-1 heterodimer is a pro-apoptotic complex that recruits procaspase-8 and initiates caspase-8 activation, which may contribute to the neuronal cell death observed in individuals diagnosed with Huntington's disease. The human hippi gene maps to chromosome 3q13.12 and encodes a 429 amino acid protein.

## REFERENCES


1. Wanker, E.E. 2002. Hip1 and Hippi participate in a novel cell death-signaling pathway. Dev. Cell 2: 126-128.
2. Gervais, F.G., et al. 2002. Recruitment and activation of caspase-8 by the Huntingtin-interacting protein Hip-1 and a novel partner Hippi. Nat. Cell Biol. 4: 95-105.
3. Ferrier, V. 2002. Hip, hip, Hippi! Nat. Cell Biol. 4: E30.
4. MacFarlane, M. 2002. Hippi-HIP1-a deadly duo. Trends Pharmacol. Sci. 23: 210.
5. Mattson, M.P. 2002. Accomplices to neuronal death. Nature 415: 377-379.
6. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 606621. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
7. LocusLink Report (LocusID: 55081). http://www.ncbi.nlm.nih.gov/LocusLink/


## CHROMOSOMAL LOCATION

Genetic locus: IFT57 (human) mapping to 3q13.12; Ift57 (mouse) mapping to 16 B5.

## SOURCE

Hippi (D-6) is a mouse monoclonal antibody raised against amino acids 198-429 mapping at the C-terminus of Hippi of human origin.

## PRODUCT

Each vial contains 200 µg $IgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Hippi (D-6) is available conjugated to agarose (sc-390120 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390120 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390120 PE), fluorescein (sc-390120 FITC), Alexa Fluor® 488 (sc-390120 AF488), Alexa Fluor® 546 (sc-390120 AF546), Alexa Fluor® 594 (sc-390120 AF594) or Alexa Fluor® 647 (sc-390120 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390120 AF680) or Alexa Fluor® 790 (sc-390120 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## APPLICATIONS

Hippi (D-6) is recommended for detection of Hippi of mouse, rat and 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), 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).

Suitable for use as control antibody for Hippi siRNA (h): sc-105454, Hippi siRNA (m): sc-145971, Hippi shRNA Plasmid (h): sc-105454-SH, Hippi shRNA Plasmid (m): sc-145971-SH, Hippi shRNA (h) Lentiviral Particles: sc-105454-V and Hippi shRNA (m) Lentiviral Particles: sc-145971-V.

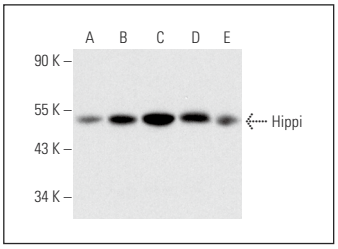
Molecular Weight of Hippi: 49 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, A-431 whole cell lysate: sc-2201 or MCF7 whole cell lysate: sc-2206.

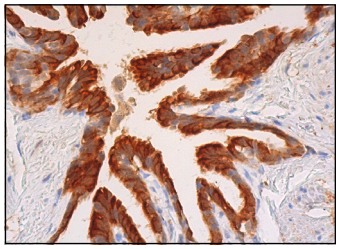
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-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-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA




Hippi (D-6): sc-390120. Western blot analysis of Hippi expression in Jurkat (**A**), T98G (**B**), A-431 (**C**), MCF7 (**D**) and K-562 (**E**) whole cell lysates.



Hippi (D-6): sc-390120. Immunoperoxidase staining of formalin fixed, paraffin-embedded human bronchus tissue showing cytoplasmic staining of respiratory epithelial cells.

## 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.