

HIP-55 (h2): 293T Lysate: sc-371066

BACKGROUND

Drebrins (developmentally regulated brain proteins) are cytoplasmic proteins that bind F-actin in the brain and are involved in cell migration, extension of neuronal processes and plasticity of dendrites. HIP-55 (HPK1-interacting protein of 55 kDa), also known as ABP1, SH3P7 or DBNL (drebrin-like), is a 430 amino acid cytoplasmic protein that belongs to the ABP1 family. HIP-55 binds to F-actin but is not involved in actin polymerization, capping or bundling. In addition to containing an ADF-H domain, HIP-55 also consists of a SH3 domain, which mediates interaction with SHANK2, SHANK3 and PRAM-1. HIP-55 acts as an actin-binding adapter protein and as a common effector of antigen receptor-signaling pathways in leukocytes. As a key component of the immunological synapse, HIP-55 regulates T-cell activation by bridging TCRs and the actin cytoskeleton to gene activation and endocytic processes. HIP-55 is degraded by caspases during apoptosis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DBNL (human) mapping to 7p13.

RESEARCH USE

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

PRODUCT

HIP-55 (h2): 293T Lysate represents a lysate of human HIP-55 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

HIP-55 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive HIP-55 antibodies. Recommended use: 10-20 µl per lane.

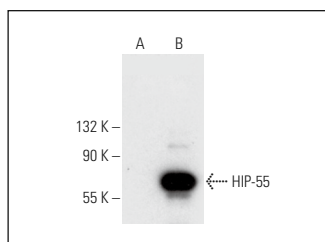
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

HIP-55 (F-9): sc-398351 is recommended as a positive control antibody for Western Blot analysis of enhanced human HIP-55 expression in HIP-55 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

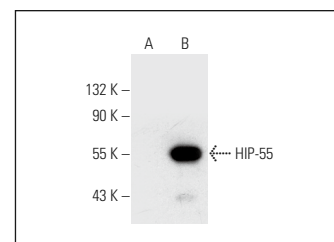
RECOMMENDED SUPPORT REAGENTS

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.

DATA



HIP-55 (F-9): sc-398351. Western blot analysis of HIP-55 expression in non-transfected: sc-117752 (A) and human HIP-55 transfected: sc-371066 (B) 293T whole cell lysates.



HIP-55 (E-5): sc-398358. Western blot analysis of HIP-55 expression in non-transfected: sc-117752 (A) and human HIP-55 transfected: sc-371066 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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