



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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

- Chen, Y.R., Kori, R., John, B. and Tan, T.H. 2001. Caspase-mediated cleavage of actin-binding and SH3-domain-containing proteins cortactin, HS1, and HIP-55 during apoptosis. *Biochem. Biophys. Res. Commun.* 288: 981-989.
- Kessels, M.M., Engqvist-Goldstein, A.E., Drubin, D.G. and Qualmann, B. 2001. Mammalian Abp1, a signal-responsive F-actin-binding protein, links the actin cytoskeleton to endocytosis via the GTPase dynamin. *J. Cell Biol.* 153: 351-366.
- Mise-Omata, S., Montagne, B., Deckert, M., Wienands, J. and Acuto, O. 2003. Mammalian actin binding protein 1 is essential for endocytosis but not lamellipodia formation: functional analysis by RNA interference. *Biochem. Biophys. Res. Commun.* 301: 704-710.
- Han, J., Kori, R., Shui, J.W., Chen, Y.R., Yao, Z. and Tan, T.H. 2003. The SH3 domain-containing adaptor HIP-55 mediates c-Jun N-terminal kinase activation in T cell receptor signaling. *J. Biol. Chem.* 278: 52195-52202.
- Le Bras, S., Foucault, I., Foussat, A., Brignone, C., Acuto, O. and Deckert, M. 2004. Recruitment of the actin-binding protein HIP-55 to the immunological synapse regulates T cell receptor signaling and endocytosis. *J. Biol. Chem.* 279: 15550-15560.
- Denis, F.M., Benecke, A., Di Gioia, Y., Touw, I.P., Cayre, Y.E. and Lutz, P.G. 2005. PRAM-1 potentiates arsenic trioxide-induced JNK activation. *J. Biol. Chem.* 280: 9043-9048.
- Han, J., Shui, J.W., Zhang, X., Zheng, B., Han, S. and Tan, T.H. 2005. HIP-55 is important for T-cell proliferation, cytokine production, and immune responses. *Mol. Cell. Biol.* 25: 6869-6878.
- Le Bras, S., Moon, C., Foucault, I., Breitmayer, J.P. and Deckert, M. 2007. Abl-SH3 binding protein 2, 3BP2, interacts with CIN85 and HIP-55. *FEBS Lett.* 581: 967-974.

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.

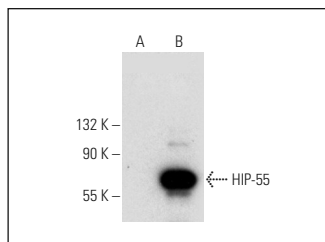
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

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).

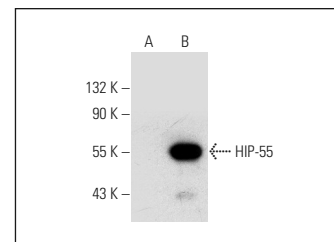
RECOMMENDED SUPPORT REAGENTS

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.