

SAP 30BP (G-13): sc-132448

BACKGROUND

SAP 30BP (SAP 30 binding protein), also known as HTRG, HTRP or HCNGP, is a 308 amino acid protein that belongs to the HCNGP family and is believed to function as a transcription regulator. Expressed in brain, liver, spleen, kidney, lung and heart, SAP 30BP localizes to the nucleus and is induced in fibroblasts by binding of HSV-1 (herpes simplex virus 1). In the nucleus, SAP 30BP interacts with SAP 30, a component of the histone deacetylase complex that also contains mSin3A, HDAC1, HDAC2, RbAp48, RbAp46 and SAP 18. Via this interaction, SAP 30BP is thought to play a role in the regulation of genes related to cell survival. In addition, SAP 30BP is capable of inducing cell death, suggesting that it functions in cellular corepression of transcription and inhibition of cell survival.

REFERENCES

- Zhang, Y., Sun, Z.W., Iratni, R., Erdjument-Bromage, H., Tempst, P., Hampsey, M. and Reinberg, D. 1998. SAP30, a novel protein conserved between human and yeast, is a component of a histone deacetylase complex. *Mol. Cell* 1: 1021-1031.
- Hu, R.M., Han, Z.G., Song, H.D., Peng, Y.D., Huang, Q.H., Ren, S.X., Gu, Y.J., Huang, C.H., Li, Y.B., Jiang, C.L., Fu, G., Zhang, Q.H., Gu, B.W., Dai, M., Mao, Y.F., Gao, G.F., Rong, R., Ye, M., Zhou, J., Xu, S.H., Gu, J., Shi, J.X., Jin, W.R., et al. 2000. Gene expression profiling in the human hypothalamus-pituitary-adrenal axis and full-length cDNA cloning. *Proc. Natl. Acad. Sci. USA* 97: 9543-9548.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 610218. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Li, J.F., Liu, L.D., Ma, S.H., Che, Y.C., Wang, L.C., Dong, C.H., Zhao, H.L., Liao, Y. and Li, Q.H. 2004. HTRP—an immediate-early gene product induced by HSV-1 infection in human embryo fibroblasts, is involved in cellular co-repressors. *J. Biochem.* 136: 169-176.
- Stelzl, U., Worm, U., Lalowski, M., Haenig, C., Brembeck, F.H., Goehler, H., Stroedicke, M., Zenkner, M., Schoenherr, A., Koeppen, S., Timm, J., Mintzlaff, S., Abraham, C., Bock, N., Kietzmann, S., Goedde, A., Toksoz, E., et al. 2005. A human protein-protein interaction network: a resource for annotating the proteome. *Cell* 122: 957-968.
- Rual, J.F., Venkatesan, K., Hao, T., Hirozane-Kishikawa, T., Dricot, A., Li, N., Berriz, G.F., Gibbons, F.D., Dreze, M., Ayivi-Guedehoussou, N., Klitgord, N., Simon, C., Boxem, M., Milstein, S., Rosenberg, J., Goldberg, D.S., Zhang, L.V., et al. 2005. Towards a proteome-scale map of the human protein-protein interaction network. *Nature* 437: 1173-1178.

CHROMOSOMAL LOCATION

Genetic locus: SAP30BP (human) mapping to 17q25.1; Sap30bp (mouse) mapping to 11 E2.

SOURCE

SAP 30BP (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SAP 30BP 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.

Blocking peptide available for competition studies, sc-132448 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SAP 30BP (G-13) is recommended for detection of SAP 30BP isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other SAP family members.

SAP 30BP (G-13) is also recommended for detection of SAP 30BP isoforms 1 and 2 in additional species, including canine and porcine.

Suitable for use as control antibody for SAP 30BP siRNA (h): sc-93789, SAP 30BP siRNA (m): sc-153217, SAP 30BP shRNA Plasmid (h): sc-93789-SH, SAP 30BP shRNA Plasmid (m): sc-153217-SH, SAP 30BP shRNA (h) Lentiviral Particles: sc-93789-V and SAP 30BP shRNA (m) Lentiviral Particles: sc-153217-V.

Molecular Weight (predicted) of SAP 30BP: 34 kDa.

Molecular Weight (observed) of SAP 30BP: 43 kDa.

Positive Controls: fetal muscle tissue extract.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

PROTOCOLS

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