

SAP 30BP (G-8): sc-514278

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

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- Hu, R.M., 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., et al. 2004. HTRP—an immediate-early gene product induced by HSV1 infection in human embryo fibroblasts, is involved in cellular corepressors. *J. Biochem.* 136: 169-176.
- Stelzl, U., et al. 2005. A human protein-protein interaction network: a resource for annotating the proteome. *Cell* 122: 957-968.

CHROMOSOMAL LOCATION

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

SOURCE

SAP 30BP (G-8) is a mouse monoclonal antibody raised against amino acids 77-230 mapping within an internal region of SAP 30BP of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SAP 30BP (G-8) is available conjugated to agarose (sc-514278 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514278 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514278 PE), fluorescein (sc-514278 FITC), Alexa Fluor[®] 488 (sc-514278 AF488), Alexa Fluor[®] 546 (sc-514278 AF546), Alexa Fluor[®] 594 (sc-514278 AF594) or Alexa Fluor[®] 647 (sc-514278 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-514278 AF680) or Alexa Fluor[®] 790 (sc-514278 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

SAP 30BP (G-8) is recommended for detection of SAP 30BP 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

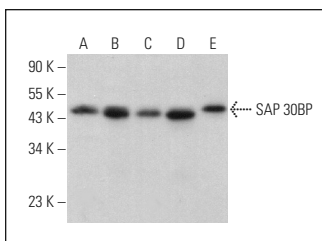
Positive Controls: MOLT-4 cell lysate: sc-2233, MCF7 whole cell lysate: sc-2206 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SUPPORT REAGENTS

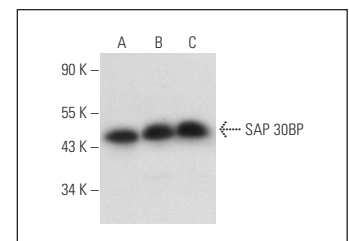
To ensure optimal results, the following support reagents are recommended:

- 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.
- Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
- 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.

DATA



SAP 30BP (G-8): sc-514278. Western blot analysis of SAP 30BP expression in MCF7 (A), K-562 (B), SK-BR-3 (C), Jurkat (D) and SK-N-SH (E) whole cell lysates.



SAP 30BP (G-8): sc-514278. Western blot analysis of SAP 30BP expression in MOLT-4 (A), MCF7 (B) and HeLa (C) whole cell lysates.

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.