

CacyBP (FL-228): sc-98356

BACKGROUND

CacyBP (calcyclin-binding protein, Siah-interacting protein) is a 228 amino acid protein encoded by the human gene CACYBP. CacyBP is primarily a nuclear protein that contains one CS domain and one SGS domain. CacyBP is believed to be involved in calcium-dependent ubiquitination and subsequent proteosomal degradation of target proteins. It most likely serves as a molecular bridge in ubiquitin E3 complexes. It also participates in the ubiquitin-mediated degradation of β -catenin. CacyBP is thought to be a potential inhibitor of cell growth and invasion in the gastric cancer cell through its effects on β -catenin protein expression and transcriptional activation of TCF/LEF.

REFERENCES

- Hildebrandt, B., et al. 2007. Differential gene expression in peripheral blood lymphocytes of cancer patients treated with whole body hyperthermia and chemotherapy: a pilot study. *Int. J. Hyperthermia* 22: 625-635.
- Sun, S., et al. 2007. Overexpressed CacyBP/SIP leads to the suppression of growth in renal cell carcinoma. *Biochem. Biophys. Res. Commun.* 356: 864-871.

CHROMOSOMAL LOCATION

Genetic locus: CACYBP (human) mapping to 1q25.1; Cacybp (mouse) mapping to 1 H2.1.

SOURCE

CacyBP (FL-228) is a rabbit polyclonal antibody raised against amino acids 1-228 representing full length CacyBP of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CacyBP (FL-228) is recommended for detection of CacyBP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

CacyBP (FL-228) is also recommended for detection of CacyBP in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for CacyBP siRNA (h): sc-88504, CacyBP siRNA (m): sc-77341, CacyBP shRNA Plasmid (h): sc-88504-SH, CacyBP shRNA Plasmid (m): sc-77341-SH, CacyBP shRNA (h) Lentiviral Particles: sc-88504-V and CacyBP shRNA (m) Lentiviral Particles: sc-77341-V.

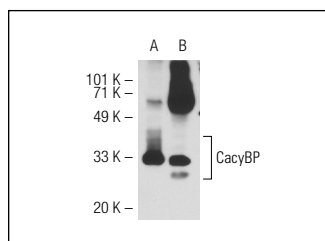
Molecular Weight of CacyBP: 26 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, WI 38 whole cell lysate: sc-364260 or mouse embryo extract: sc-364239.

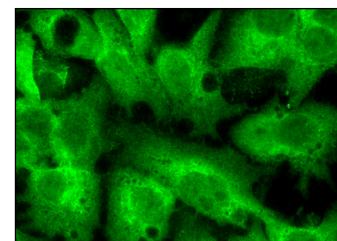
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



CacyBP (FL-228): sc-98356. Western blot analysis of CacyBP expression in WI 38 whole cell lysate (A) and mouse embryo tissue extract (B).



CacyBP (FL-228): sc-98356. Immunofluorescence staining of formalin-fixed Hep G2 cells showing cytoplasmic and nuclear localization.

SELECT PRODUCT CITATIONS

- Shi, H., et al. 2014. CacyBP/SIP protein is important for the proliferation of human glioma cells. *IUBMB Life* 66: 286-291.

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.



Try **CacyBP (H-1): sc-166455** or **CacyBP (A-10): sc-166163**, our highly recommended monoclonal alternatives to CacyBP (FL-228).