

Cbp (P-18): sc-11667

BACKGROUND

The Src family of protein tyrosine kinases (Src-PTKs) is important in the regulation of growth and differentiation of eukaryotic cells. The activity of Src-PTKs in cells of different types is negatively controlled by Csk. Csk binding protein (Cbp, also designated phosphoprotein associated with glycosphingo-lipid-enriched microdomains (GEMs) or PAG) is a transmembrane phosphoprotein that is ubiquitously expressed and binds specifically to the SH2 domain of Csk. Cbp is involved in the membrane localization of Csk and in the Csk-mediated inhibition of c-Src. In the plasma membrane Cbp is exclusively localized in the GM1 ganglioside-enriched detergent-insoluble membrane domain, which is important in receptor-mediated signalling. Cbp is a component of the regulatory mechanism controlling the activity of membrane-associated Src-PTKs.

REFERENCES

1. Simons, K. and Ikonen, E. 1997. Functional rafts in cell membranes. *Nature* 387: 569-572.
2. Brown, D.A. and London, E. 1998. Functions of lipid rafts in biological membranes. *Annu. Rev. Cell. Dev. Biol.* 14: 111-136.
3. Anderson, R.G. 1998. The caveolae membrane system. *Annu. Rev. Biochem.* 67: 199-225.

SOURCE

Cbp (P-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Cbp 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-11667 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Cbp (P-18) is recommended for detection of Cbp of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

Cbp (P-18) is also recommended for detection of Cbp in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Cbp siRNA (h): sc-29952, Cbp siRNA (m): sc-29953, Cbp shRNA Plasmid (h): sc-29952-SH, Cbp shRNA Plasmid (m): sc-29953-SH, Cbp shRNA (h) Lentiviral Particles: sc-29952-V and Cbp shRNA (m) Lentiviral Particles: sc-29953-V.

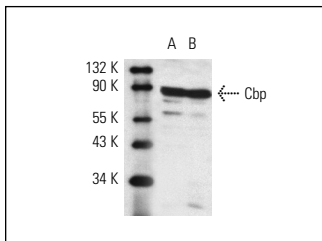
Molecular Weight of Cbp: 80-90 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, or HeLa whole cell lysate: sc-2200.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



Cbp (P-18): sc-11667. Western blot analysis of Cbp expression in HeLa (A) and A-431 (B) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Kovarova, M., et al. 2006. Cholesterol deficiency in a mouse model of Smith-Lemli-Opitz syndrome reveals increased mast cell responsiveness. *J. Exp. Med.* 203: 1161-1171.

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.


 MONOS
Satisfaction
Guaranteed

Try **Cbp (G-8): sc-365387** or **Cbp (49): sc-293026**, our highly recommended monoclonal alternatives to Cbp (P-18).