

EF-CBP2 (C-12): sc-83803

BACKGROUND

Members of the EF-CBP (N-terminal EF-hand calcium binding protein)/NECAB (neuronal calcium-binding protein) family participate in neuronal calcium signaling. EF-CBP2, also known as NECAB2 (N-terminal EF-hand calcium binding protein 2), neuronal calcium-binding protein 2 or synaptotagmin-interacting protein 2 (Stip-2), is a 386 amino acid cytoplasmic protein that contains one antibiotic biosynthesis monooxygenase (ABM) domain and two EF-hand domains. Expressed in brain, EF-CBP2 is suggested to bind metabotropic glutamate receptor 5 (mGluR-5) in a calcium-regulated manner. The gene encoding EF-CBP2 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NECAB2 (human) mapping to 16q23.3; Necab2 (mouse) mapping to 8 E1.

SOURCE

EF-CBP2 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of EF-CBP2 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-83803 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EF-CBP2 (C-12) is recommended for detection of EF-CBP2 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); non cross-reactive with family member EF-CBP1.

Suitable for use as control antibody for EF-CBP2 siRNA (h): sc-77241, EF-CBP2 siRNA (m): sc-77242, EF-CBP2 shRNA Plasmid (h): sc-77241-SH, EF-CBP2 shRNA Plasmid (m): sc-77242-SH, EF-CBP2 shRNA (h) Lentiviral Particles: sc-77241-V and EF-CBP2 shRNA (m) Lentiviral Particles: sc-77242-V.

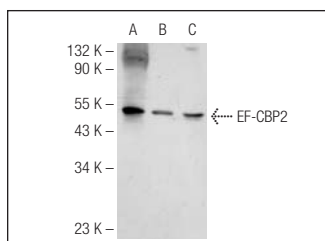
Molecular Weight of EF-CBP2: 43 kDa.

Positive Controls: H19-7/IGF-IR whole cell lysate, C6 whole cell lysate or rat hippocampus 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) 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



EF-CBP2 (C-12): sc-83803. Western blot analysis of EF-CBP2 expression in C6 (A) and H19-7/IGF-IR (B) whole cell lysates and rat hippocampus tissue extract (C).

RESEARCH USE

For research use only, not for use in diagnostic procedures.