

CaBP5 (N-13): sc-28089

BACKGROUND

The calcium binding protein (CaBP) family shares much similarity to calmodulin. It has been shown that CaBP proteins can substitute functionally for, and probably augment the function of, calmodulin. Calcium binding proteins are a crucial part of calcium mediated cellular signal transduction in the central nervous system. There are several members of the family with varying expression patterns. CaBP1 and CaBP2 can be expressed as multiple, alternatively spliced variants in brain and retina. CaBP3, CaBP4 and CaBP5 are restricted to retinal rod and cone cells.

REFERENCES

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3. Hensel, G., et al. 1994. Hormonal regulation of protein disulfide isomerase and chaperone synthesis in the rat exocrine pancreas. *Eur. J. Cell. Biol* 63: 208-218.
4. Hensel, G., Assmann, V., Kern, H.F. 2000. Five members of a novel Ca²⁺-binding protein (CaBP) subfamily with similarity to calmodulin. *J. Biol. Chem.* 275:1247-1260.
5. <http://harvester.embl.de/harvester/Q9NZ/Q9NZU7.htm>
6. SWISS-PROT/TrEMBL (Q9NZU7). World Wide Web URL:<http://www.expasy.ch/sprot/sprot-top.html>
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CHROMOSOMAL LOCATION

Genetic locus: CABP5 (human) mapping to 19q13.33.

SOURCE

CaBP5 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of CaBP5 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-28089 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

PROTOCOLS

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

APPLICATIONS

CaBP5 (N-13) is recommended for detection of CaBP5 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).

Suitable for use as control antibody for CaBP5 siRNA (h): sc-105174, CaBP5 siRNA (m): sc-141964, CaBP5 shRNA Plasmid (h): sc-105174-SH, CaBP5 shRNA Plasmid (m): sc-141964-SH, CaBP5 shRNA (h) Lentiviral Particles: sc-105174-V and CaBP5 shRNA (m) Lentiviral Particles: sc-141964-V.

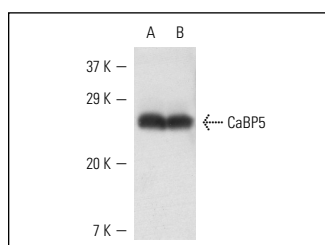
Molecular Weight of CaBP5: 26 kDa.

Positive Controls: mouse eye extract, rat eye extractor or Y79 cell lysate: sc-2240.

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



CaBP5 (N-13): sc-28089. Western blot analysis of CaBP5 expression in mouse eye (A) and rat eye (B) tissue extracts.

RESEARCH USE

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

MONOS
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Try **CaBP (A-4): sc-365522**, our highly recommended monoclonal alternative to CaBP5 (N-13).