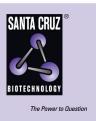
# SANTA CRUZ BIOTECHNOLOGY, INC.

# CaBP2 (M-50): sc-292410



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

- 1. Rupp, K., et al. 1994. Effects of CaBP2, the rat analog of ERp72, and of CaBP1 on the refolding of denatured reduced proteins. Comparison with protein disulfide isomerase. J. Biol. Chem. 269: 2501-2507.
- 2. Lundstrom-Ljung, J., et al. 1995. Two resident ER-proteins, CaBP1 and CaBP2, with thioredoxin domains, are substrates for thioredoxin reductase: comparison with protein disulfide isomerase. FEBS Lett. 357: 305-308.
- 3. Janson, I.M., et al. 1997. Phosphorylation of CaBP1 and CaBP2 by protein kinase CK2. J. Biochem. 121: 112-117.
- 4. Haeseleer, F., et al. 2000. Five members of a novel Ca<sup>2+</sup>-binding protein (CABP) subfamily with similarity to calmodulin. J. Biol. Chem. 275: 1247-1260.
- 5. Kramer, B., et al. 2001. Functional roles and efficiencies of the thioredoxin boxes of calcium-binding proteins 1 and 2 in protein folding. Biochem. J. 357: 83-95.
- 6. http://harvester.embl.de/harvester/Q9NZ/Q9NZU7.htm
- 7. SWISS-PROT/TrEMBL (Q9NZU7). World Wide Web URL: http://www.expasy.ch/sprot/sprot-top.html

### CHROMOSOMAL LOCATION

Genetic locus: Cabp2 (mouse) mapping to 19 A.

#### SOURCE

CaBP2 (M-50) is a rabbit polyclonal antibody raised against amino acids 6-55 mapping at the N-terminus of CaBP2 of mouse origin.

#### PRODUCT

Each vial contains 200  $\mu$ g lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

# **STORAGE**

Store at 4° C, \*\*D0 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**

CaBP2 (M-50) is recommended for detection of CaBP2 of mouse and rat 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 CaBP2 siRNA (m): sc-141962, CaBP2 shRNA Plasmid (m): sc-141962-SH and CaBP2 shRNA (m) Lentiviral Particles: sc-141962-V.

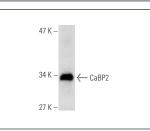
Molecular Weight of CaBP2: 18 kDa.

Positive Controls: mouse brain extract: sc-2235.

### **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<sup>™</sup> compatible goat antirabbit 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<sup>™</sup> Mounting Medium: sc-24941.

# DATA



CaBP2 (M-50): sc-292410. Western blot analysis or CaBP2 expression in mouse brain tissue extract

# **RESEARCH USE**

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

MONOS Try CaBP (A-4): sc-365522, our highly recommended Satisfation monoclonal alternative to CaBP2 (M-50). Guaranteed