

# CREB3L2 (P-20): sc-69372

## BACKGROUND

CREB3L2 (cAMP responsive element binding protein 3-like 2), also known as BBF2H7, is a 520 amino acid single-pass type II membrane protein that localizes to the endoplasmic reticulum and contains one bZIP domain. Expressed in a wide variety of tissues, including lung, spleen, placenta and intestine, CREB3L2 functions as a transcriptional activator that binds DNA as a dimer and is thought to act during endoplasmic reticulum stress, specifically by activating the transcription of unfolded protein response target genes. Additionally, CREB3L2 is thought to be involved in preventing the accumulation of unfolded proteins in damaged neurons, thereby playing a role in neuronal maintenance. Chromosomal rearrangements that involve the CREB3L2 gene are associated with low grade fibromyxoid sarcomas (LGFMSs). Multiple isoforms of CREB3L2 exist due to alternative splicing events.

## CHROMOSOMAL LOCATION

Genetic locus: CREB3L2 (human) mapping to 7q33; Creb3l2 (mouse) mapping to 6 B1.

## SOURCE

CREB3L2 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CREB3L2 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-69372 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-69372 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CREB3L2 (P-20) is recommended for detection of CREB3L2 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).

CREB3L2 (P-20) is also recommended for detection of CREB3L2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CREB3L2 siRNA (h): sc-72997, CREB3L2 siRNA (m): sc-72998, CREB3L2 shRNA Plasmid (h): sc-72997-SH, CREB3L2 shRNA Plasmid (m): sc-72998-SH, CREB3L2 shRNA (h) Lentiviral Particles: sc-72997-V and CREB3L2 shRNA (m) Lentiviral Particles: sc-72998-V.

CREB3L2 (P-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

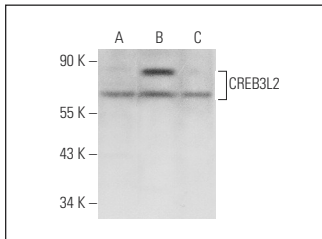
Molecular Weight of CREB3L2: 57 kDa.

Positive Controls: CREB3L2 (h): 293T Lysate: sc-370243, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

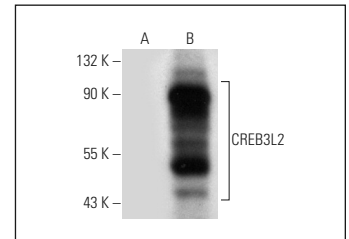
## RECOMMENDED SECONDARY REAGENTS

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



CREB3L2 (P-20): sc-69372. Western blot analysis of CREB3L2 expression in Jurkat (A), HeLa (B) and THP-1 (C) whole cell lysates.



CREB3L2 (P-20): sc-69372. Western blot analysis of CREB3L2 expression in non-transfected: sc-117752 (A) and human CREB3L2 transfected: sc-370243 (B) 293T whole cell lysates.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **CREB3L2 (C-10): sc-515018**, our highly recommended monoclonal alternative to CREB3L2 (P-20).