

CHIC1 (D-12): sc-132232

BACKGROUND

In mammals, X-chromosome inactivation is required to ensure equivalent levels of gene expression from the sex chromosomes. X chromosome inactivation in mammals requires the X inactivation center (XIC) and the Xist (X inactive specific transcript) gene product, which is exclusively expressed from the inactive chromosome. CHIC1 (cysteine-rich hydrophobic domain 1), also known as BRX (brain X-linked protein), is a 224 amino acid protein that is encoded by a gene which localizes to the XIC candidate region of the X chromosome. Localizing to the cell membrane and to cytoplasmic vesicles, CHIC1 is palmitoylated and preferentially expressed in brain. In mice, CHIC1 is normally X-inactivated. Due to the chromosomal location of the CHIC1 gene, it is believed that CHIC1 may play a role in certain X-linked mental retardation syndromes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CHIC1 (human) mapping to Xq13.2; Chic1 (mouse) mapping to X D.

SOURCE

CHIC1 (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CHIC1 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-132232 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CHIC1 (D-12) is recommended for detection of CHIC1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

CHIC1 (D-12) is also recommended for detection of CHIC1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CHIC1 siRNA (h): sc-91188, CHIC1 siRNA (m): sc-142328, CHIC1 shRNA Plasmid (h): sc-91188-SH, CHIC1 shRNA Plasmid (m): sc-142328-SH, CHIC1 shRNA (h) Lentiviral Particles: sc-91188-V and CHIC1 shRNA (m) Lentiviral Particles: sc-142328-V.

Molecular Weight of CHIC1: 26 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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) 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.

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.