

CRELD2 (M-120): sc-292652

BACKGROUND

The epidermal growth factor (EGF) repeat-containing proteins constitute an expanding family of proteins that are involved in several cellular activities, such as blood coagulation, fibrinolysis, cell adhesion and neural and vertebrate development. CRELD2 (cysteine-rich with EGF-like domains 2) is a 353 amino acid protein that is ubiquitously expressed and contains 2 FU domains and 2 EGF-like domains. Localized to the endoplasmic reticulum and secreted into the cell, CRELD2 interacts with AChR α 4, possibly regulating its transport. Human CRELD2 shares 69% amino acid identity with its mouse counterpart, suggesting a conserved role between species. Multiple isoforms of CRELD2 exist due to alternative splicing events. The gene encoding CRELD2 maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, Neurofibromatosis type 2, autism and schizophrenia.

REFERENCES

1. Gilbert, F. 1998. Disease genes and chromosomes: disease maps of the human genome. *Chromosome 22. Genet. Test.* 2: 89-97.
2. Rupp, P.A., Fouad, G.T., Egelston, C.A., Reifsteck, C.A., Olson, S.B., Knosp, W.M., Gianville, R.W., Thornburg, K.L., Robinson, S.W. and Maslen, C.L. 2002. Identification, genomic organization and mRNA expression of CRELD1, the founding member of a unique family of matricellular proteins. *Gene* 293: 47-57.

CHROMOSOMAL LOCATION

Genetic locus: CRELD2 (human) mapping to 22q13.33; Creld2 (mouse) mapping to 15 E3.

SOURCE

CRELD2 (M-120) is a rabbit polyclonal antibody raised against amino acids 171-290 mapping within an internal region of CRELD2 of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CRELD2 (M-120) is recommended for detection of CRELD2 of mouse, rat and, to a lesser extent, human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 CRELD2 siRNA (h): sc-77023, CRELD2 siRNA (m): sc-142568, CRELD2 shRNA Plasmid (h): sc-77023-SH, CRELD2 shRNA Plasmid (m): sc-142568-SH, CRELD2 shRNA (h) Lentiviral Particles: sc-77023-V and CRELD2 shRNA (m) Lentiviral Particles: sc-142568-V.

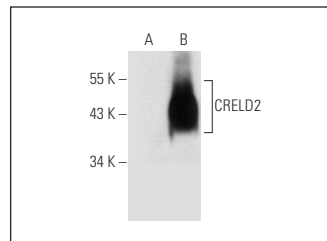
Molecular Weight of CRELD2: 38 kDa.

Positive Controls: CRELD2 (m): 293T Lysate: sc-119455.

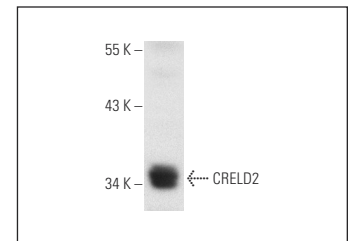
RECOMMENDED SECONDARY REAGENTS

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™ compatible goat anti-rabbit 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™ Mounting Medium: sc-24941.

DATA



CRELD2 (M-120): sc-292652. Western blot analysis of CRELD2 expression in non-transfected: sc-117752 (A) and mouse CRELD2 transfected: sc-119455 (B) 293T whole cell lysates.



CRELD2 (M-120): sc-292652. Western blot analysis of CRELD2 expression in Jurkat whole cell lysate.

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 or our catalog for detailed protocols and support products.



Try **CRELD2 (C-6): sc-393980** or **CRELD2 (D-5): sc-376599**, our highly recommended monoclonal alternatives to CRELD2 (M-120).