SANTA CRUZ BIOTECHNOLOGY, INC.

CDO (A-1): sc-377232

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Cell adhesion molecule-related/down-regulated by oncogenes (CDO) and BOC (brother of CDO) are members of the immunoglobulin/Fibronectin type III repeat family and act as cell surface receptors. CDO is a component of a cell-surface receptor complex which also contains BOC, NEO1, CTNNB1 and cadherins and which acts as a mediator of cell-cell interactions between muscle cells. CDO and BOC are single pass membrane proteins that play a role in myogenic cell differentiation. Together, CDO and BOC participate in a positive feedback loop with MyoD, a myogenic transcription factor. The 1,242 amino acid rat CDO protein has a 24 residue signal sequence, 5 Ig V-like repeats, a 25 residue membrane-spanning region, 6 FNIII-like repeats and a cytoplasmic region of 256 amino acids containing a proline-rich stretch. The human protein contains 1,225 amino acid residues and shares significant homology with the domain structures of the rat protein.

CHROMOSOMAL LOCATION

Genetic locus: CDON (human) mapping to 11q24.2; Cdon (mouse) mapping to 9 A4.

SOURCE

CDO (A-1) is a mouse monoclonal antibody raised against amino acids 31-174 mapping near the N-terminus of CDO of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CDO (A-1) is available conjugated to agarose (sc-377232 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377232 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377232 PE), fluorescein (sc-377232 FITC), Alexa Fluor® 488 (sc-377232 AF488), Alexa Fluor® 546 (sc-377232 AF546), Alexa Fluor® 594 (sc-377232 AF594) or Alexa Fluor® 647 (sc-377232 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-377232 AF680) or Alexa Fluor® 790 (sc-377232 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

CDO (A-1) is recommended for detection of CDO of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (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 CDO siRNA (h): sc-60345, CDO siRNA (m): sc-60346, CDO shRNA Plasmid (h): sc-60345-SH, CDO shRNA Plasmid (m): sc-60346-SH, CDO shRNA (h) Lentiviral Particles: sc-60345-V and CDO shRNA (m) Lentiviral Particles: sc-60346-V.

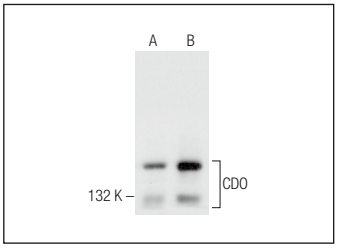
Molecular Weight of CDO: 160 kDa.

Positive Controls: mouse skeletal muscle extract: sc-364250, rat skeletal muscle extract: sc-364810 or C6 whole cell lysate: sc-364373.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



CDO (A-1): sc-377232. Western blot analysis of CDO expression in mouse skeletal muscle (**A**) and rat skeletal muscle (**B**) tissue extracts.

CDO (A-1): sc-377232. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skeletal muscle tissue showing cytoplasmic staining of myocytes.

SELECT PRODUCT CITATIONS

1. Griffiths, B.B., et al. 2019. Postinjury inhibition of miR-181a promotes restoration of hippocampal CA1 neurons after transient forebrain ischemia in rats. eNeuro 6: ENEURO.0002-19.2019.

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 for detailed protocols and support products.