**BACKGROUND**

DIXDC1 (DIX domain containing 1), also known as CCD1 or Dixin, is a 683 amino acid protein that localizes to the cell junction and to the cytoplasm in an isomorph-dependent manner and contains one DIX domain and one CH (calponin-homology) domain. Expressed ubiquitously with highest expression in skeletal and cardiac muscle, DIXDC1 interacts with F-Actin and functions as a positive regulator of the Wnt signaling pathway, effectively targeting the β-catenin-TCF complex for gene expression and mediating Actin dynamics within the cytoskeleton. The gene encoding DIXDC1 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: DIXDC1 (human) mapping to 11q23.1; DIXdc1 (mouse) mapping to 9 A5.3.

**SOURCE**

DIXDC1 (A-6) is a mouse monoclonal antibody raised against amino acids 121-420 mapping within an internal region of DIXDC1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2b in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DIXDC1 (A-6) is available conjugated to agarose (sc-377160 AC), 500 µg/ml agarose in 1 ml, for IP; to HRP (sc-377160 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377160 PE), fluorescein (sc-377160 FITC), Alexa Fluor® 488 (sc-377160 AF488), Alexa Fluor® 546 (sc-377160 AF546), Alexa Fluor® 594 (sc-377160 AF594) or Alexa Fluor® 647 (sc-377160 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-377160 AF680) or Alexa Fluor® 790 (sc-377160 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

DIXDC1 (A-6) is recommended for detection of DIXDC1 isoforms 1, 2, 3 and 4 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DIXDC1 siRNA (h): sc-96677, DIXDC1 siRNA (m): sc-143051, DIXDC1 shRNA Plasmid (h): sc-96677-SH, DIXDC1 shRNA Plasmid (m): sc-143051-SH, DIXDC1 shRNA (h) Lentiviral Particles: sc-96677-V and DIXDC1 shRNA (m) Lentiviral Particles: sc-143051-V.

Molecular Weight of DIXDC1: 77 kDa.

Positive Controls: rat skeletal muscle extract: sc-364810 or mouse skeletal muscle extract: sc-364250.

**DATA**

![Western Blot Analysis](image)

**SELECT PRODUCT CITATIONS**


**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.

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