BXDC1 (H-280): sc-98306



The Power to Question

BACKGROUND

BXDC1 (brix domain-containing protein 1) is a 306 amino acid protein encoded by the human gene BXDC1. BXDC1 is a nuclear protein that contains one Brix domain. Brix domain-containing proteins represent a family of proteins involved in the biogenesis of large ribosomal subunits. The Brix domain is a region with homology to the yeast protein Pitx1 (ribosome biogenesis protein BRX1). Pitx1 is part of a complex that includes RPF1, RPF2 and SSF1 or SSF2. This complex is required for the biogenesis of the 60S ribosomal subunit.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BXDC1 (human) mapping to 6q21; Bxdc1 (mouse) mapping to 10 B1.

SOURCE

BXDC1 (H-280) is a rabbit polyclonal antibody raised against amino acids 27-289 mapping at the C-terminus of BXDC1 of human origin.

PRODUCT

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

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

BXDC1 (H-280) is recommended for detection of BXDC1 of mouse, rat and 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).

BXDC1 (H-280) is also recommended for detection of BXDC1 in additional species, including canine and bovine.

Suitable for use as control antibody for BXDC1 siRNA (h): sc-95623, BXDC1 siRNA (m): sc-141792, BXDC1 shRNA Plasmid (h): sc-95623-SH, BXDC1 shRNA Plasmid (m): sc-141792-SH, BXDC1 shRNA (h) Lentiviral Particles: sc-95623-V and BXDC1 shRNA (m) Lentiviral Particles: sc-141792-V.

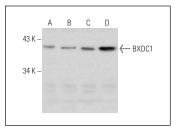
Molecular Weight of BXDC1: 36 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, HL-60 whole cell lysate: sc-2209 or Jurkat whole cell lysate: sc-2204.

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



BXDC1 (H-280): sc-98306. Western blot analysis of BXDC1 expression in HeLa (**A**), HL-60 (**B**), Jurkat (**C**) and U-937 (**D**) 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.