

BTBD2 (Q-13): sc-167234

BACKGROUND

BTBD2 (BTB/POZ domain-containing protein 2) is a 525 amino acid protein that contains one BTB/POZ domain. The BTB/POZ domain mediates homomeric and heteromeric POZ-POZ interactions and is common to transcriptional regulators involved in chromatin modeling. In several BTB/POZ containing proteins, including Bcl-6 and the promyelocytic leukemia zinc-finger (PLZF) oncoprotein, this domain interacts with the SMRT/N-CoR-mSin3A HDAC complex and is directly involved in repressing and silencing gene transcription. When this domain is deleted, as with the oncogenic PLZF-RAR chimera of promyelocytic leukemias, this transcriptional repression is attenuated. This suggests that BTBD2 may play a role in transcription regulation. BTBD2 is expressed as two isoforms produced by alternative splicing events and has been found to interact with Topo I and Trim5 δ .

REFERENCES

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6. Xu, L., et al. 2002. Characterization of BTBD1 and BTBD2, two similar BTB-domain-containing Kelch-like proteins that interact with topoisomerase I. *BMC Genomics* 3: 1.
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CHROMOSOMAL LOCATION

Genetic locus: BTBD2 (human) mapping to 19p13.3; Btbd2 (mouse) mapping to 10 C1.

SOURCE

BTBD2 (Q-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of BTBD2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-167234 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BTBD2 (Q-13) is recommended for detection of BTBD2 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); non cross-reactive with other BTBD family members.

Suitable for use as control antibody for BTBD2 siRNA (h): sc-97552, BTBD2 siRNA (m): sc-141775, BTBD2 shRNA Plasmid (h): sc-97552-SH, BTBD2 shRNA Plasmid (m): sc-141775-SH, BTBD2 shRNA (h) Lentiviral Particles: sc-97552-V and BTBD2 shRNA (m) Lentiviral Particles: sc-141775-V.

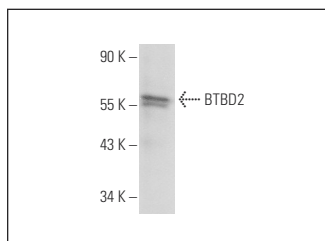
Molecular Weight of BTBD2: 56 kDa.

Positive Controls: mouse PBL whole cell lysate.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



BTBD2 (Q-13): sc-167234. Western blot analysis of BTBD2 expression in mouse PBL 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.