KBTBD3 (K-15): sc-247218



The Boures to Overtion

BACKGROUND

The BTB (broad-complex, tramtrack and bric a brac) domain, also known as the POZ (poxvirus and zinc finger) domain, is an N-terminal homodimerization domain that contains multiple copies of kelch repeats and/or $\rm C_2H_2$ -type zinc fingers. Proteins that contain BTB domains are thought to be involved in transcriptional regulation via control of chromatin structure and function. KBTBD3 (kelch repeat and BTB domain-containing protein 3), also known as BKLHD3, is a 608 amino acid protein that contains one BACK (BTB/kelch associated) domain, one BTB (POZ) domain and five kelch repeats. The gene encoding KBTBD3 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

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CHROMOSOMAL LOCATION

Genetic locus: KBTBD3 (human) mapping to 11q22.3; Kbtbd3 (mouse) mapping to 9 A1.

SOURCE

KBTBD3 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KBTBD3 of human origin.

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.

PRODUCT

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

Blocking peptide available for competition studies, sc-247218 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KBTBD3 (K-15) is recommended for detection of KBTBD3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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); non cross-reactive with other KBTBD family members.

KBTBD3 (K-15) is also recommended for detection of KBTBD3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for KBTBD3 siRNA (h): sc-96628, KBTBD3 siRNA (m): sc-146350, KBTBD3 shRNA Plasmid (h): sc-96628-SH, KBTBD3 shRNA Plasmid (m): sc-146350-SH, KBTBD3 shRNA (h) Lentiviral Particles: sc-96628-V and KBTBD3 shRNA (m) Lentiviral Particles: sc-146350-V.

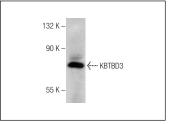
Molecular Weight of KBTBD3: 69 kDa.

Positive Controls: U-2 OS cell lysate: sc-2295.

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



KBTBD3 (K-15): sc-247218. Western blot analysis of KBTBD3 expression in U-2 OS whole cell lysate.

PROTOCOLS

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