KBTBD10 (T-13): sc-132725



The Power to Question

BACKGROUND

KBTBD10 (kelch repeat and BTB domain-containing protein 10), also known as kel-like protein 23, sarcosin or kelch-related protein 1, is a 606 amino acid cytoplasmic protein found in sarcomeric muscle. KBTBD10 plays an important role in the protein ubiquitination pathway by acting as the substrate-specific adaptor of an E3 ubiquitin-protein ligase complex. KBTBD10 forms this complex with CUL-3 and Rbx1, and also interacts with N-RAP. Although predominantly cytoplasmic, KBTBD10 can co-localize with actin at the ruffle-like membrane structures located at the tips of pseudopodia, indicating a role in pseudopod elongation in transformed cells. KBTBD10 contains five kelch repeats and one BTB (POZ) domain. Due to alternative splicing events, KBTBD10 exists as two isoforms.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KBTBD10 (human) mapping to 2q31.1; Kbtbd10 (mouse) mapping to 2 C2.

SOURCE

KBTBD10 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KBTBD10 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.

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-132725 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KBTBD10 (T-13) is recommended for detection of KBTBD10 isoforms long and short of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

KBTBD10 (T-13) is also recommended for detection of KBTBD10 isoforms Long and Short in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for KBTBD10 siRNA (h): sc-94395, KBTBD10 siRNA (m): sc-146347, KBTBD10 shRNA Plasmid (h): sc-94395-SH, KBTBD10 shRNA Plasmid (m): sc-146347-SH, KBTBD10 shRNA (h) Lentiviral Particles: sc-94395-V and KBTBD10 shRNA (m) Lentiviral Particles: sc-146347-V.

Molecular Weight of KBTBD10: 68 kDa.

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) 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.

RESEARCH USE

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

PROTOCOLS

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

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