

# KCTD18 (D-16): sc-132726

## BACKGROUND

The BTB (broad-complex, tramtrack and bric a brac) domain, also known as the POZ (pox virus and zinc finger) domain, is an N-terminal homodimerization domain that contains multiple copies of kelch repeats and/or C<sub>2</sub>H<sub>2</sub>-type zinc fingers. Proteins that contain BTB domains are thought to be involved in transcriptional regulation via control of chromatin structure and function. KCTD18 (potassium channel tetramerisation domain containing 18) is a 426 amino acid protein that contains one BTB (POZ) domain, possibly indicating a role in transcription regulation. KCTD18 is expressed as three isoforms produced by alternative splicing.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: KCTD18 (human) mapping to 2q33.1; Kctd18 (mouse) mapping to 1 C1.3.

## SOURCE

KCTD18 (D-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KCTD18 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132726 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

KCTD18 (D-16) is recommended for detection of KCTD18 isoforms 1 and 2 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 KCTD18 isoform 3.

KCTD18 (D-16) is also recommended for detection of KCTD18 isoforms 1 and 2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for KCTD18 siRNA (h): sc-94447, KCTD18 siRNA (m): sc-146389, KCTD18 shRNA Plasmid (h): sc-94447-SH, KCTD18 shRNA Plasmid (m): sc-146389-SH, KCTD18 shRNA (h) Lentiviral Particles: sc-94447-V and KCTD18 shRNA (m) Lentiviral Particles: sc-146389-V.

Molecular Weight of KCTD18: 47 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.