

# KCTD16 (E-16): sc-247224

## 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 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. KCTD16 (potassium channel tetramerisation domain containing 16), also known as BTB/POZ domain-containing protein KCTD16, is a 428 amino acid protein that contains one BTB (POZ) domain. An auxiliary subunit of GABA<sub>B</sub> R1 and GABA<sub>B</sub> R2, KCTD16 increases agonist potency and alters the G protein signaling of the receptors by accelerating onset and promoting desensitization.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: KCTD16 (human) mapping to 5q31.3; Kctd16 (mouse) mapping to 18 B3.

## SOURCE

KCTD16 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KCTD16 of human origin.

## 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-247224 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

KCTD16 (E-16) is recommended for detection of KCTD16 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 KCTD family members.

KCTD16 (E-16) is also recommended for detection of KCTD16 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for KCTD16 siRNA (h): sc-91995, KCTD16 siRNA (m): sc-146387, KCTD16 shRNA Plasmid (h): sc-91995-SH, KCTD16 shRNA Plasmid (m): sc-146387-SH, KCTD16 shRNA (h) Lentiviral Particles: sc-91995-V and KCTD16 shRNA (m) Lentiviral Particles: sc-146387-V.

Molecular Weight of KCTD16: 49 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.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.