KCTD15 (G-17): sc-243144



The Power to Question

BACKGROUND

KCTD15 is a 283 amino acid protein that contains one BTB (POZ) domain and exists as 2 alternatively spliced isoforms. The gene that encodes KCTD15 consists of approximately 18,918 bases and maps to human chromosome 19q13.11. Consisting of around 63 million bases with more than 1,400 genes, chromosome 19 makes up over 2% of the human genome. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte lg-like receptors, a number of ICAMs, the CEACAM and PSG families, and Fc α receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19. Translocations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene BCL3.

REFERENCES

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- Trowsdale, J., et al. 2001. The genomic context of natural killer receptor extended gene families. Immunol. Rev. 181: 20-38.
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CHROMOSOMAL LOCATION

Genetic locus: KCTD15 (human) mapping to 19q13.11; Kctd15 (mouse) mapping to 7 B1.

SOURCE

KCTD15 (G-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of KCTD15 of human origin.

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-243144 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KCTD15 (G-17) is recommended for detection of KCTD15 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 KCTD family members.

KCTD15 (G-17) is also recommended for detection of KCTD15 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for KCTD15 siRNA (h): sc-97204, KCTD15 siRNA (m): sc-146386, KCTD15 shRNA Plasmid (h): sc-97204-SH, KCTD15 shRNA Plasmid (m): sc-146386-SH, KCTD15 shRNA (h) Lentiviral Particles: sc-97204-V and KCTD15 shRNA (m) Lentiviral Particles: sc-146386-V.

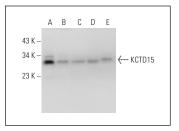
Molecular Weight of KCTD15 isoforms: 32/26 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, HeLa whole cell lysate: sc-2200 or K-562 whole cell lysate: sc-2203.

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



KCTD15 (G-17): sc-243144. Western blot analysis of KCTD15 expression in IMR-32 (**A**), HeLa (**B**), K-562 (**C**), NIH/3T3 (**D**) and MCF7 (**E**) whole cell lysates.

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.

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