

KCTD20 (S-20): sc-247234

BACKGROUND

KCTD20 (BTB/POZ domain-containing protein KCTD20), also known as C6orf69, is a 419 amino acid protein that forms a complex with MARK4. Containing one BTB (POZ) domain, KCTD20 exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 6p21.31 and mouse chromosome 17 A3.3. Making up nearly 6% of the human genome, chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Porphyria cutanea tarda is associated with chromosome 6 through the HFE gene, which, when mutated, predisposes an individual to developing this porphyria. Notably, the PARK2 gene, which is associated with Parkinson's disease, and the genes encoding the major histocompatibility complex proteins, which are key molecular components of the immune system and determine predisposition to rheumatic diseases, are also located on chromosome 6.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KCTD20 (human) mapping to 6p21.31.

SOURCE

KCTD20 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of KCTD20 of human origin.

RESEARCH USE

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

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-247234 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KCTD20 (S-20) is recommended for detection of KCTD20 of 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.

Suitable for use as control antibody for KCTD20 siRNA (h): sc-95124, KCTD20 shRNA Plasmid (h): sc-95124-SH and KCTD20 shRNA (h) Lenti-viral Particles: sc-95124-V.

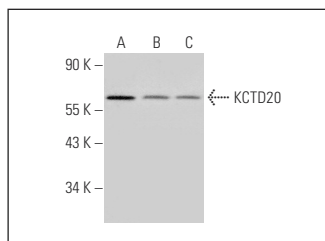
Molecular Weight of KCTD20 isoforms 1/2: 47/29 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, MEG-01 cell lysate: sc-2283 or Hep G2 cell lysate: sc-2227.

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



KCTD20 (S-20): sc-247234. Western blot analysis of KCTD20 expression in Jurkat (A), MEG-01 (B) and Hep G2 (C) 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.