SANTA CRUZ BIOTECHNOLOGY, INC.

KLHL32 (N-17): sc-324000

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The Power to Question

BACKGROUND

KLHL32 (kelch-like protein 32) is a 620 amino acid protein that contains one BTB (POZ) domain and 6 Kelch repeats. The gene that encodes KLHL32 maps to human chromosome 6 which makes up nearly 6% of the human genome and 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 histocompatiblity complex proteins, which are key molecular components of the immune system and determine predisposition to rheumatic diseases, are also located on chromosome 6. Stickler syndrome, 21-hydroxylase deficiency and maple syrup urine disease are also associated with genes on chromosome 6. A bipolar disorder susceptibility locus has been identified on the q arm of chromosome 6.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KLHL32 (human) mapping to 6q16.1; Klhl32 (mouse) mapping to 4 A3.

SOURCE

KLHL32 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of KLHL32 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-324000 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KLHL32 (N-17) is recommended for detection of KLHL32 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 KLHL family members.

KLHL32 (N-17) is also recommended for detection of KLHL32 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for KLHL32 siRNA (h): sc-95166, KLHL32 siRNA (m): sc-146531, KLHL32 shRNA Plasmid (h): sc-95166-SH, KLHL32 shRNA Plasmid (m): sc-146531-SH, KLHL32 shRNA (h) Lentiviral Particles: sc-95166-V and KLHL32 shRNA (m) Lentiviral Particles: sc-146531-V.

Molecular Weight of KLHL32: 70 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 or our catalog for detailed protocols and support products.