SANTA CRUZ BIOTECHNOLOGY, INC.

KLHDC10 (K-17): sc-247359

BACKGROUND

KLHDC10 (kelch domain-containing protein 10) is a 442 amino acid protein that contains 6 kelch repeats. Expressed in fetal brain, liver, lung, kidney and placenta, KLHDC10 exists as two alternatively spliced isoforms. The gene encoding KLHDC10 maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders, including cases of acute myelogenous leukemia and myelodysplasia.

REFERENCES

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2. Liang, H., Fairman, J., Claxton, D.F., Nowell, P.C., Green, E.D. and Nagarajan, L. 1998. Molecular anatomy of chromosome 7q deletions in myeloid neoplasms: evidence for multiple critical loci. Proc. Natl. Acad. Sci. USA 95: 3781-3785.
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CHROMOSOMAL LOCATION

Genetic locus: KLHDC10 (human) mapping to 7q32.2; Klhdc10 (mouse) mapping to 6 A3.3.

SOURCE

KLHDC10 (K-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KLHDC10 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-247359 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KLHDC10 (K-17) is recommended for detection of KLHDC10 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 KLHDC family members.

KLHDC10 (K-17) is also recommended for detection of KLHDC10 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for KLHDC10 siRNA (h): sc-89884, KLHDC10 siRNA (m): sc-108755, KLHDC10 shRNA Plasmid (h): sc-89884-SH, KLHDC10 shRNA Plasmid (m): sc-108755-SH, KLHDC10 shRNA (h) Lentiviral Particles: sc-89884-V and KLHDC10 shRNA (m) Lentiviral Particles: sc-108755-V.

Molecular Weight of KLHDC10 isoforms 1/2: 49/33 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.

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.