

KLHL20 (K-12): sc-160475

BACKGROUND

KLHL20 (kelch-like 20), also known as KHLHX, KLEIP or KLHLX, is a 609 amino acid protein that is related to the *Drosophila* kelch protein, which is required to maintain Actin organization in ovarian ring canals. Mutations affecting kelch function result in failure of kelch to associate with the ring canals, causing subsequent female sterility. Human KLHL20 protein contains six kelch repeats, one BACK (BTB/kelch associated) domain and one BTB (POZ) domain. 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 C₂H₂-type zinc fingers. Proteins that contain BTB domains are thought to be involved in transcriptional regulation via control of chromatin structure and function. KLHL20 is a probable substrate-specific adapter of an E3 ubiquitin-protein ligase complex, which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KLHL20 (human) mapping to 1q25.1; Klhl20 (mouse) mapping to 1 H2.1.

SOURCE

KLHL20 (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of KLHL20 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160475 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KLHL20 (K-12) is recommended for detection of KLHL20 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.

KLHL20 (K-12) is also recommended for detection of KLHL20 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for KLHL20 siRNA (h): sc-88301, KLHL20 siRNA (m): sc-146520, KLHL20 shRNA Plasmid (h): sc-88301-SH, KLHL20 shRNA Plasmid (m): sc-146520-SH, KLHL20 shRNA (h) Lentiviral Particles: sc-88301-V and KLHL20 shRNA (m) Lentiviral Particles: sc-146520-V.

Molecular Weight of KLHL20: 68 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.



Try **KLHL20 (D-7): sc-515381**, our highly recommended monoclonal alternative to KLHL20 (K-12).