

KLHL18 (T-12): sc-99488

BACKGROUND

KLHL18 (kelch-like protein 18) is a 574 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 and subsequent female sterility. Human KLHL18 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. There are two isoforms of KLHL18 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KLHL18 (human) mapping to 3p21.31; Klhl18 (mouse) mapping to 9 F2.

SOURCE

KLHL18 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KLHL18 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-99488 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KLHL18 (T-12) is recommended for detection of KLHL18 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 KLHL family members.

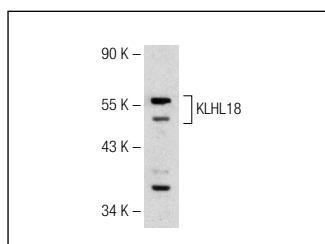
KLHL18 (T-12) is also recommended for detection of KLHL18 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for KLHL18 siRNA (h): sc-78030, KLHL18 siRNA (m): sc-146518, KLHL18 shRNA Plasmid (h): sc-78030-SH, KLHL18 shRNA Plasmid (m): sc-146518-SH, KLHL18 shRNA (h) Lentiviral Particles: sc-78030-V and KLHL18 shRNA (m) Lentiviral Particles: sc-146518-V.

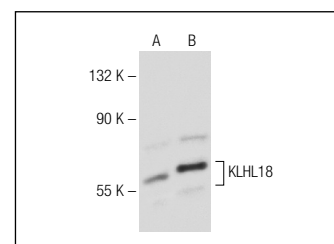
Molecular Weight of KLHL18: 64/56 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or KLHL18 (h3): 293T Lysate: sc-128939.

DATA



KLHL18 (T-12): sc-99488. Western blot analysis of KLHL18 expression in HeLa whole cell lysate.



KLHL18 (T-12): sc-99488. Western blot analysis of KLHL18 expression in non-transfected: sc-117752 (A) and human KLHL18 transfected: sc-128939 (B) 293T 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.