

# KLHL34 (P-16): sc-247376

## BACKGROUND

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 C<sub>2</sub>H<sub>2</sub>-type zinc fingers. Proteins that contain BTB domains are thought to be involved in transcriptional regulation via control of chromatin structure and function. KLHL34 (kelch-like protein 34) is a 644 amino acid protein containing a BACK (BTB/kelch associated) domain, a BTB (POZ) domain, and 6 kelch repeats. The gene encoding KLHL34 maps to human chromosome X, which consists of about 153 million base pairs and nearly 1,000 genes. Color blindness, hemophilia and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently, as males carry a single X chromosome.

## REFERENCES

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- Stogios, P.J. and Privé, G.G. 2004. The BACK domain in BTB-kelch proteins. *Trends Biochem. Sci.* 29: 634-637.

## CHROMOSOMAL LOCATION

Genetic locus: KLHL34 (human) mapping to Xp22.12; Klhl34 (mouse) mapping to X F4.

## SOURCE

KLHL34 (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KLHL34 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-247376 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

KLHL34 (P-16) is recommended for detection of KLHL34 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.

KLHL34 (P-16) is also recommended for detection of KLHL34 in additional species, including canine and bovine.

Suitable for use as control antibody for KLHL34 siRNA (h): sc-91110, KLHL34 siRNA (m): sc-146532, KLHL34 shRNA Plasmid (h): sc-91110-SH, KLHL34 shRNA Plasmid (m): sc-146532-SH, KLHL34 shRNA (h) Lentiviral Particles: sc-91110-V and KLHL34 shRNA (m) Lentiviral Particles: sc-146532-V.

Molecular Weight of KLHL34: 71 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](http://www.scbt.com) or our catalog for detailed protocols and support products.