

# KLHL11 (L-18): sc-247366

## BACKGROUND

KLHL11 (kelch-like 11) is a 708 amino acid secreted protein that contains one BACK (BTB/Kelch associated) domain, a BTB (POZ) domain and 5 kelch repeats. The gene encoding KLHL11 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

## REFERENCES

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- Minamoto, T., et al. 2001. Distinct pattern of p53 phosphorylation in human tumors. *Oncogene* 20: 3341-3347.

## CHROMOSOMAL LOCATION

Genetic locus: KLHL11 (human) mapping to 17q21.2; Klhl11 (mouse) mapping to 11 D.

## SOURCE

KLHL11 (L-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KLHL11 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-247366 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

KLHL11 (L-18) is recommended for detection of KLHL11 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.

KLHL11 (L-18) is also recommended for detection of KLHL11 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for KLHL11 siRNA (h): sc-93609, KLHL11 siRNA (m): sc-146512, KLHL11 shRNA Plasmid (h): sc-93609-SH, KLHL11 shRNA Plasmid (m): sc-146512-SH, KLHL11 shRNA (h) Lentiviral Particles: sc-93609-V and KLHL11 shRNA (m) Lentiviral Particles: sc-146512-V.

Molecular Weight of KLHL11: 80 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.