

STK40 (Q-12): sc-160098

BACKGROUND

STK40 (serine/threonine-protein kinase 40), also known as sugen kinase 495, is a 435 amino acid protein kinase that may be a negative regulator of NFκB and p53-mediated gene expression. Localized to both the cytoplasm and the nucleus, STK40 is ubiquitously expressed. STK40 has a central serine/threonine protein kinase domain and is homologous to TRB-3, a protein that regulates activation of MAP kinases and inhibits NFκB-mediated gene transcription. Similarly, overexpression of STK40 inhibits NFκB activation triggered by TNF and also inhibits p53-mediated transcription. There are four named isoforms of STK40 that are produced as a result of alternative splicing.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: STK40 (human) mapping to 1p34.3; Stk40 (mouse) mapping to 4 D2.2.

SOURCE

STK40 (Q-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of STK40 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-160098 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

STK40 (Q-12) is recommended for detection of STK40 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 STK family members.

STK40 (Q-12) is also recommended for detection of STK40 in additional species, including equine and canine.

Suitable for use as control antibody for STK40 siRNA (h): sc-78599, STK40 siRNA (m): sc-153901, STK40 shRNA Plasmid (h): sc-78599-SH, STK40 shRNA Plasmid (m): sc-153901-SH, STK40 shRNA (h) Lentiviral Particles: sc-78599-V and STK40 shRNA (m) Lentiviral Particles: sc-153901-V.

Molecular Weight of STK40: 55 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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 **STK40 (LN-87): sc-130476**, our highly recommended monoclonal alternative to STK40 (Q-12).