

STK19 (3B6): sc-100427

BACKGROUND

The phosphorylation of proteins by protein kinases and protein phosphatases is a key event in most nuclear and cytoplasmic processes. The ability to activate and deactivate proteins via phosphorylation or dephosphorylation is important for cell division, cell differentiation, DNA repair and transcription. STK19 (serine/threonine kinase 19), also known as G₁₁, RP1, D6S60, D6S60E or HLA-RP1, is a 368 amino acid protein that localizes to the nucleus and is a member of the superfamily of serine/threonine protein kinases. Expressed in monocytes, hepatocytes, epithelial cells, and T and B lymphocytes, STK19 is a protein kinase that can catalytically phosphorylate serine and threonine residues on proteins such as histones and caseins. STK19 functions in an ATP-dependent manner and uses divalent cations, including manganese, as cofactors. Multiple isoforms of STK19 exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: STK19 (human) mapping to 6p21.32.

SOURCE

STK19 (3B6) is a mouse monoclonal antibody raised against recombinant STK19 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

STK19 (3B6) is recommended for detection of STK19 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for STK19 siRNA (h): sc-95613, STK19 shRNA Plasmid (h): sc-95613-SH and STK19 shRNA (h) Lentiviral Particles: sc-95613-V.

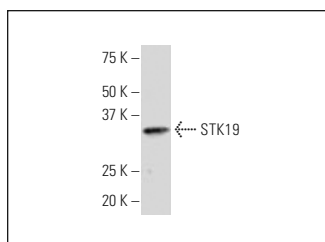
Molecular Weight of STK19 isoforms: 29/42 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or HL-60 whole cell lysate: sc-2209.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



STK19 (3B6): sc-100427. Western blot analysis of STK19 expression in K-562 whole cell lysate.

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 for detailed protocols and support products.