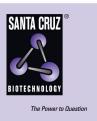
SANTA CRUZ BIOTECHNOLOGY, INC.

HOOK2 (T-20): sc-49980



BACKGROUND

Microtubules mediate the spatial organization of diverse membrane-trafficking systems. The HOOK proteins, HOOK1, HOOK2 and HOOK3, comprise a family of cytosolic coiled-coil proteins that contain conserved N-terminal domains, which attach to microtubules; and more divergent C-terminal domains, which mediate binding to organelles. HOOK2 (also known as HK2) is 719 amino acids in length. It exists as a homodimer, most likely mediated through its central coiled-coil domain. HOOK2 may associate with SURF1 and Zic2, and all three may be potential esophageal cancer tumor antigens. HOOK2 expression is strong in the larynx and the esophagus. Unlike HOOK3, which localizes to the Golgi, HOOK2 localizes to discrete subcellular structures not corresponding to early or late endosomes, mitochondria, Golgi complex, endoplasmic reticulum, lysosomes or multivesicular bodies.

CHROMOSOMAL LOCATION

Genetic locus: HOOK2 (human) mapping to 19p13.2; Hook2 (mouse) mapping to 8 C3.

SOURCE

HOOK2 (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HOOK2 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-49980 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

HOOK2 (T-20) is recommended for detection of HOOK2 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).

HOOK2 (T-20) is also recommended for detection of HOOK2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for HOOK2 siRNA (h): sc-60798, HOOK2 siRNA (m): sc-60799, HOOK2 shRNA Plasmid (h): sc-60798-SH, HOOK2 shRNA Plasmid (m): sc-60799-SH, HOOK2 shRNA (h) Lentiviral Particles: sc-60798-V and HOOK2 shRNA (m) Lentiviral Particles: sc-60799-V.

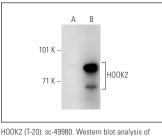
Molecular Weight of HOOK2: 83 kDa.

Positive Controls: HOOK2 (h): 293T Lysate: sc-112980 or 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



HOUK2 (T-20): sc-49980. Western blot analysis of HOOK2 expression in non-transfected: sc-117752 (**A**) and human HOOK2 transfected: sc-112980 (**B**) 293T whole cell lysates.

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.

MONOS Satisfation Guaranteed

Try HOOK2 (G-4): sc-365716 or HOOK2 (E-9): sc-514700, our highly recommended monoclonal alternatives to HOOK2 (T-20).