SANTA CRUZ BIOTECHNOLOGY, INC.

HOOK2 (E-4): sc-137107

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HOOK2 (human) mapping to 19p13.2.

SOURCE

HOOK2 (E-4) is a mouse monoclonal antibody raised against amino acids 157-236 mapping within an internal region of HOOK2 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

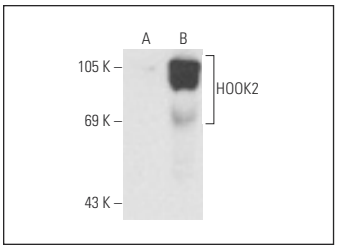
HOOK2 (E-4) is recommended for detection of HOOK2 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

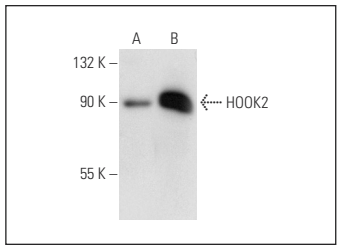
Molecular Weight of HOOK2: 83 kDa.

Positive Controls: HOOK2 (h): 293T Lysate: sc-112980 or Hep G2 cell lysate: sc-2227.

DATA



HOOK2 (E-4): sc-137107. Western blot analysis of HOOK2 expression in non-transfected: sc-117752 (**A**) and human HOOK2 transfected: sc-112980 (**B**) 293T whole cell lysates.



HOOK2 (E-4): sc-137107. Western blot analysis of HOOK2 expression in non-transfected: sc-117752 (**A**) and human HOOK2 transfected: sc-172317 (**B**) 293T whole cell lysates.

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.