


Anti-HOOK2 antibody ab154109

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Overview

Product name	Anti-HOOK2 antibody
Description	Rabbit polyclonal to HOOK2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Cow 
Immunogen	Recombinant fragment, corresponding to a region within amino acids 197-380 of Human HOOK2 (UniProt ID: Q96ED9).
Positive control	WB: HepG2, HCT116 and mouse liver whole cell lysates. IHC-P: Human MCF7 xenograft; Mouse duodenum and testis tissue. ICC/IF: HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154109 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 83 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/1000.

Target

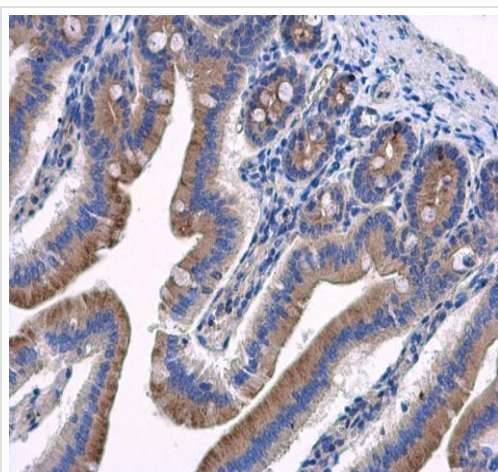
Relevance

HOOK2 is a member of the Hook protein family. Hook proteins are 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 localizes to the centrosome through all phases of the cell cycle. Interference with HOOK2 function results in the loss of the radial organization of microtubules suggesting that HOOK2 contributes to the establishment and maintenance of centrosomal structure and function. HOOK2 may contribute to the establishment and maintenance of the pericentrosomal localization of aggresomes by promoting the microtubule-based delivery of protein aggregates to pericentriolar aggresomes.

Cellular localization

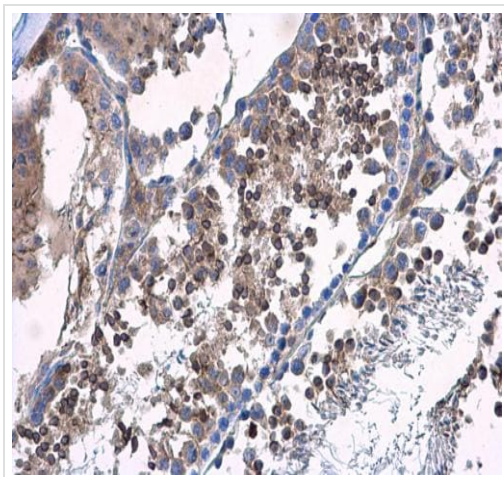
Cytoplasmic. Note=Associates with discrete punctate structure that correspond to neither early or late endosomes, lysosomes, multivesicular bodies (MVBs), Golgi complex, endoplasmic reticulum, nor mitochondria.

Images



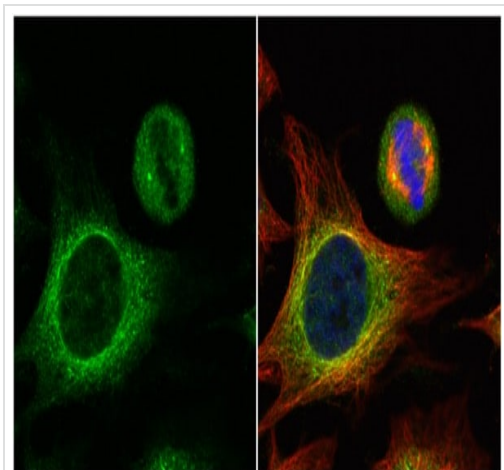
Paraffin-embedded mouse duodenum tissue stained for HOOK2 using ab154109 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK2 antibody (ab154109)



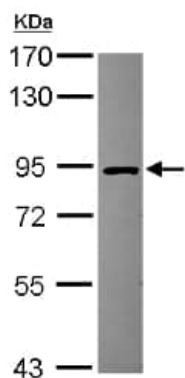
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK2 antibody (ab154109)

Paraffin-embedded mouse testis tissue stained for HOOK2 using ab154109 at 1/500 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-HOOK2 antibody (ab154109)

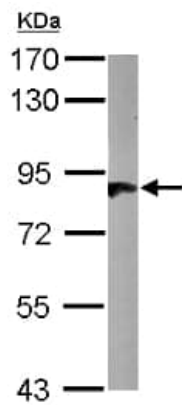
PFA-fixed, Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for HOOK2 (green) using ab154109 at 1/500 dilution in ICC/IF.



Western blot - Anti-HOOK2 antibody (ab154109)

Anti-HOOK2 antibody (ab154109) at 1/1000 dilution + HCT116 whole cell lysate at 30 µg

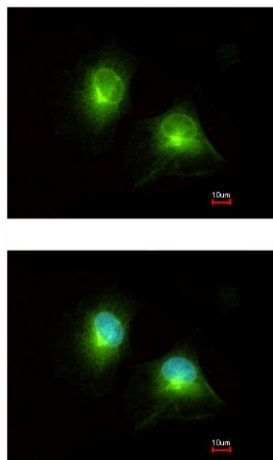
Predicted band size: 83 kDa



Western blot - Anti-HOOK2 antibody (ab154109)

Anti-HOOK2 antibody (ab154109) at 1/1000 dilution + mouse liver whole cell lysate at 50 μ g

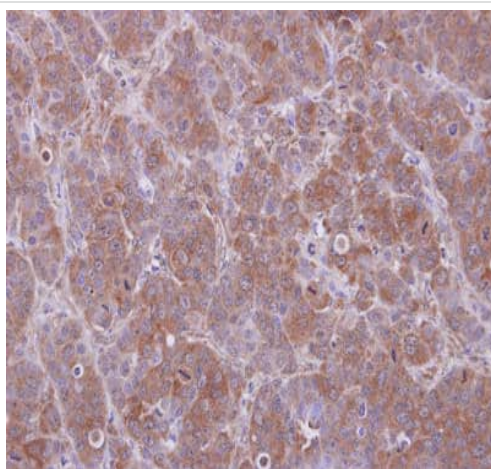
Predicted band size: 83 kDa



Immunofluorescent analysis of methanol-fixed HeLa cells labeling HOOK2 with ab154109 at 1/200 dilution.

The image in the lower panel was co-stained with Hoechst 33342.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK2 antibody (ab154109)



Immunohistochemical analysis of paraffin embedded MCF7 xenograft tissue labeling HOOK2 with ab154109 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK2 antibody (ab154109)

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