ARG43093
anti-HOOK2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes HOOK2
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	HOOK2
Species	Human
Immunogen	Recombinant protein corresponding to E500-R702 of Human HOOK2.
Conjugation	Un-conjugated
Alternate Names	HK2; hHK2; Protein Hook homolog 2; h-hook2

Application Instructions

Application table

Application	Dilution
FACS	1:150 - 1:500
ICC/IF	1:200 - 1:1000
IHC-P	1:200 - 1:1000
WB	1:500 - 1:2000

Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Rat liver, Mouse liver and A549
Observed Size	~ 83 kDa

Properties

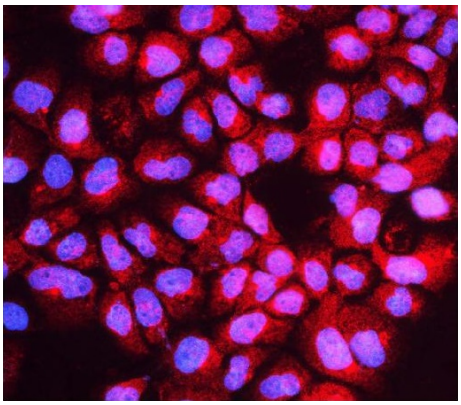
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

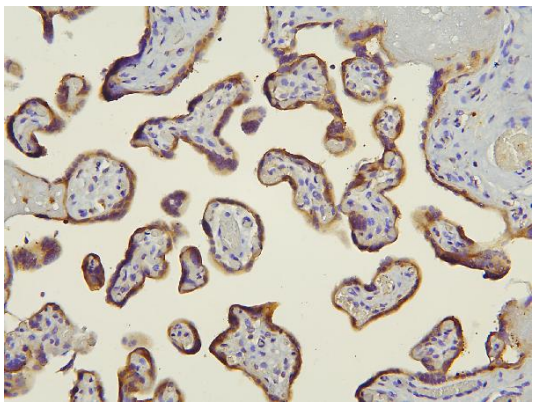
Gene Symbol	HOOK2
Gene Full Name	hook microtubule-tethering protein 2
Background	Hook proteins are cytosolic coiled-coil proteins that contain conserved N-terminal domains, which attach to microtubules, and more divergent C-terminal domains, which mediate binding to organelles. The Drosophila Hook protein is a component of the endocytic compartment.[supplied by OMIM, Apr 2004]
Function	Component of the FTS/Hook/FHIP complex (FHF complex). The FHF complex may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein sorting complex (the HOPS complex). Contributes to the establishment and maintenance of centrosome function. May function in the positioning or formation of aggresomes, which are pericentriolar accumulations of misfolded proteins, proteasomes and chaperones. [UniProt]
Calculated Mw	83 kDa
Cellular Localization	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Colocalizes with aggresomes, which are aggregates of misfolded proteins, at the centrosome. Also localizes to punctate cytoplasmic foci which do not appear to overlap with early or late endosomes, the endoplasmic reticulum, the Golgi complex, multivesicular bodies (MVBs), lysosome, or mitochondria. Often found in close association with microtubules. Localizes to the manchette in elongating spermatids. [UniProt]

Images



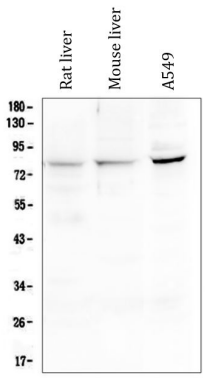
ARG43093 anti-HOOK2 antibody ICC/IF image

Immunofluorescence: A431 cells were blocked with 10% goat serum and then stained with ARG43093 anti-HOOK2 antibody (red) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



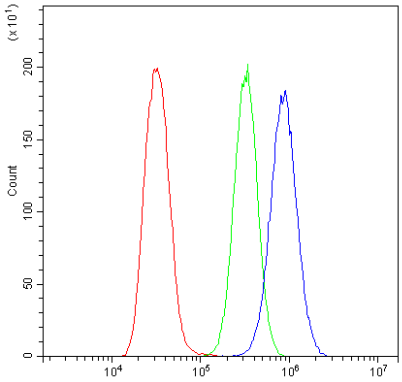
ARG43093 anti-HOOK2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43093 anti-HOOK2 antibody at 1 µg/ml dilution, overnight at 4°C.



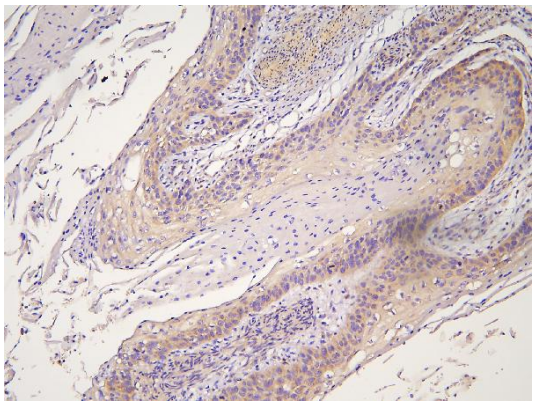
ARG43093 anti-HOOK2 antibody WB image

Western blot: 50 µg of sample under reducing conditions. Rat liver, Mouse liver and A549 whole cell lysates stained with ARG43093 anti-HOOK2 antibody at 0.5 µg/ml dilution, overnight at 4°C.



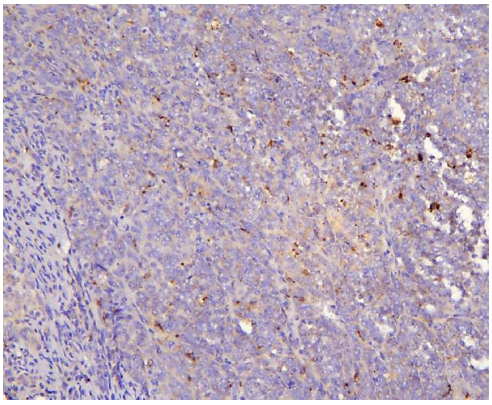
ARG43093 anti-HOOK2 antibody FACS image

Flow Cytometry: U2OS cells were blocked with 10% normal goat serum and then stained with ARG43093 anti-HOOK2 antibody (blue) at 1 µg/10^6 cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



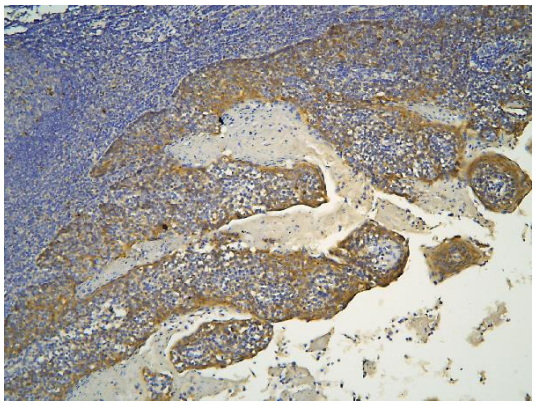
ARG43093 anti-HOOK2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human oesophagus squama cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43093 anti-HOOK2 antibody at 1 µg/ml dilution, overnight at 4°C.



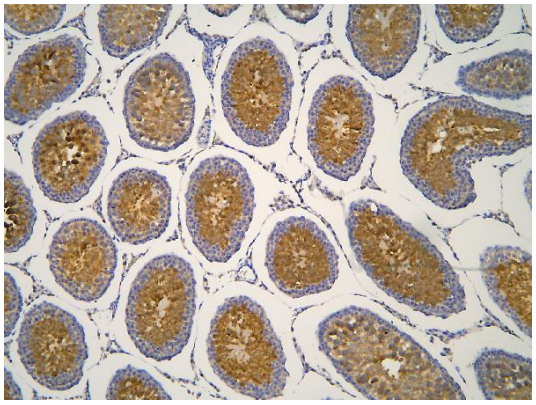
ARG43093 anti-HOOK2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human sarcoma tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43093 anti-HOOK2 antibody at 1 µg/ml dilution, overnight at 4°C.



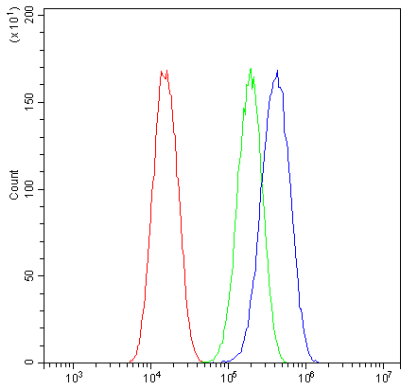
ARG43093 anti-HOOK2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human tonsil tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43093 anti-HOOK2 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG43093 anti-HOOK2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43093 anti-HOOK2 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG43093 anti-HOOK2 antibody FACS image

Flow Cytometry: U87 cells were blocked with 10% normal goat serum and then stained with ARG43093 anti-HOOK2 antibody (blue) at 1 µg/10^6 cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.