abcam

Product datasheet

Anti-HOOK1 antibody [EPR10102] - BSA and Azide free ab249067

Recombinant RabMAb

9 Images

Overview

Product name	Anti-HOOK1 antibody [EPR10102] - BSA and Azide free
Description	Rabbit monoclonal [EPR10102] to HOOK1 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P **Unsuitable for:** Flow Cyt or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human HOOK1. The exact sequence is proprietary. Database link: Q9UJC3
General notes	Ab249067 is the carrier-free version of ab151756. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. ab249067 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *Maxpar® is a trademark of Fluidigm Canada Inc.* This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents. Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR10102
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab249067** in the following tested applications.

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

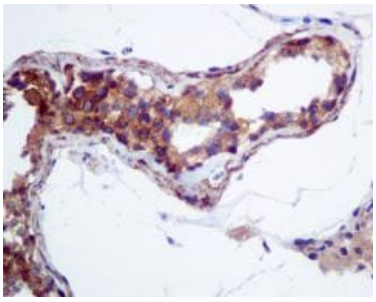
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 85 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Use of a HRP/AP polymerized secondary antibody is recommended.

Application notes	Is unsuitable for Flow Cyt or IP.

Target

Function	Required for spermatid differentiation. Probably involved in the positioning of the microtubules of the manchette and the flagellum in relation to the membrane skeleton (By similarity). 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).
Sequence similarities	Belongs to the hook family.
Cellular localization	Cytoplasm > cytoskeleton. Cytoplasm. Localizes to the spermatid manchette during spermiogenesis but is not present in mature spermatozoa (By similarity). 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), lysosomes, or mitochondria. Often found in close association with microtubules.

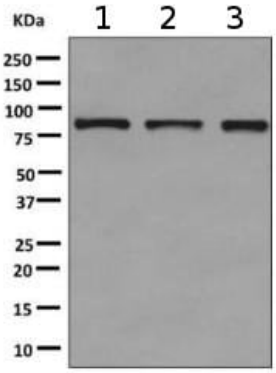
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] - BSA and Azide free (ab249067)

This data was developed using ab151756, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin embedded Human testis tissue labeling HOOK1 with ab151756 at a 1/100 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-HOOK1 antibody [EPR10102] - BSA and Azide free (ab249067)

All lanes : Anti-HOOK1 antibody [EPR10102] (ab151756) at 1/1000 dilution

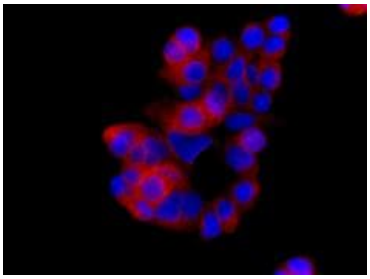
Lane 1 : 293T cell lysate
Lane 2 : MCF-7 cell lysate
Lane 3 : Caco-2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 85 kDa

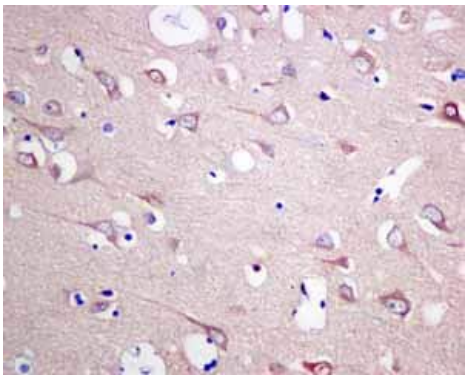
This data was developed using ab151756, the same antibody clone in a different buffer formulation.



Immunocytochemistry - Anti-HOOK1 antibody [EPR10102] - BSA and Azide free (ab249067)

This data was developed using ab151756, the same antibody clone in a different buffer formulation.

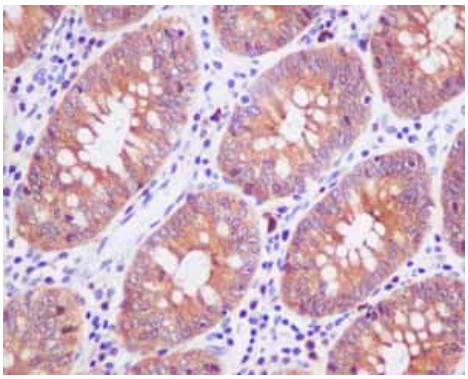
Immunofluorescence analysis of Caco-2 cells labeling HOOK1 with ab151756 at a 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] - BSA and Azide free (ab249067)

This data was developed using ab151756, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin embedded Human normal brain tissue using ab151756 showing +ve staining.

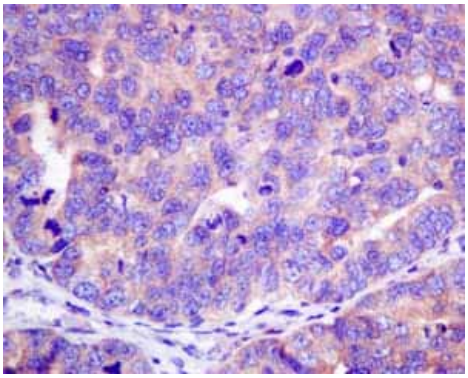
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] - BSA and Azide free (ab249067)

This data was developed using ab151756, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin embedded Human normal colon tissue using ab151756 showing +ve staining.

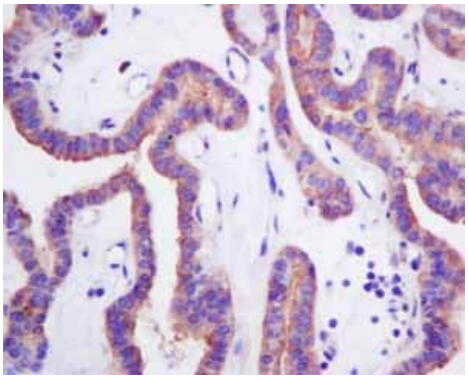
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] - BSA and Azide free (ab249067)

This data was developed using ab151756, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin embedded Human ovarian carcinoma tissue using ab151756 showing +ve staining.

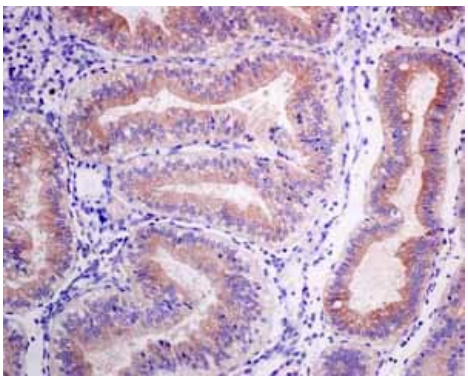
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] - BSA and Azide free (ab249067)

This data was developed using ab151756, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin embedded Human thyroid gland carcinoma tissue using ab151756 showing +ve staining.

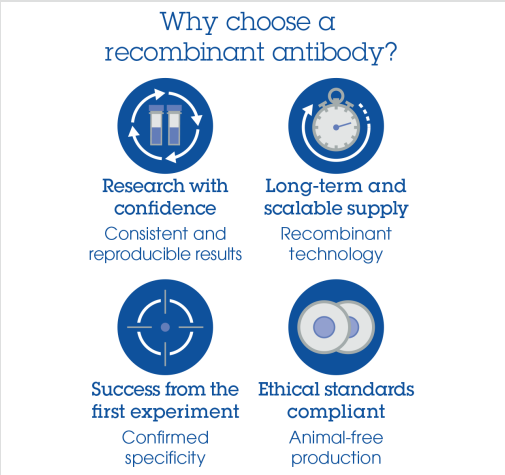
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] - BSA and Azide free (ab249067)

This data was developed using ab151756, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin embedded Human normal uterus tissue using ab151756 showing +ve staining.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Anti-HOOK1 antibody [EPR10102] - BSA and Azide free (ab249067)

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