

## Product datasheet

# Anti-HOOK1 antibody [EPR10102] ab151756

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [5 References](#) [9 Images](#)

### Overview

---

<b>Product name</b>	Anti-HOOK1 antibody [EPR10102]
<b>Description</b>	Rabbit monoclonal [EPR10102] to HOOK1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF <b>Unsuitable for:</b> Flow Cyt or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	293T or MCF-7 lysate, Human testis tissue or Caco-2 cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

---

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR10102
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab151756 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)	1/1000 - 1/10000. Predicted molecular weight: 85 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Use of an HRP/AP polymerized secondary antibody recommended.
ICC/IF		1/100 - 1/250.

### 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).

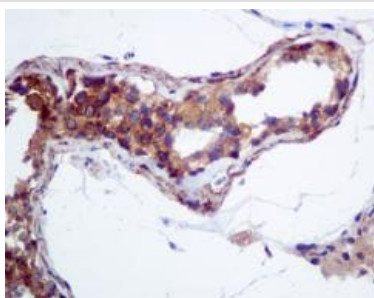
### Sequence similarities

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.

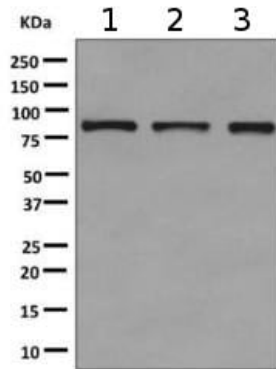
## Images



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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] (ab151756)



Western blot - Anti-HOOK1 antibody [EPR10102] (ab151756)

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

**Lane 1** : 293T cell lysate

**Lane 2** : MCF-7 cell lysate

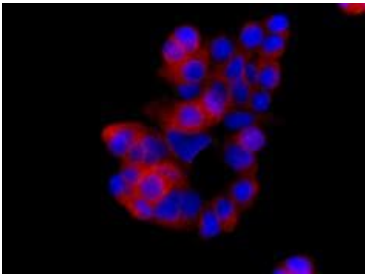
**Lane 3** : Caco-2 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

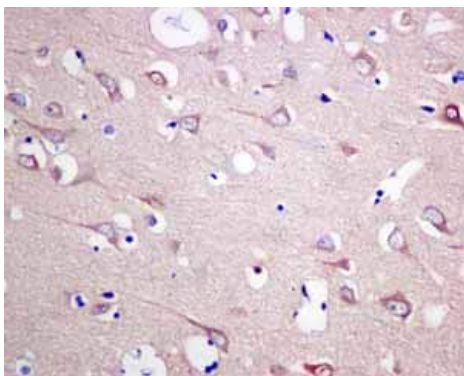
**All lanes** : HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 85 kDa



Immunocytochemistry/ Immunofluorescence - Anti-HOOK1 antibody [EPR10102] (ab151756)

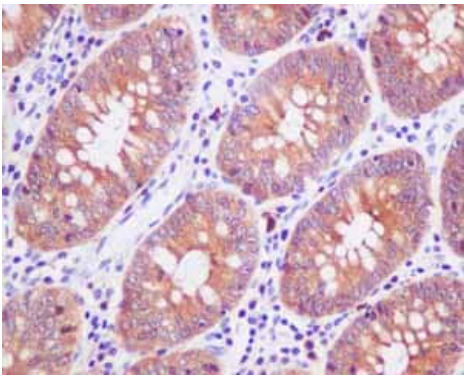
Immunofluorescence analysis of Caco-2 cells labeling HOOK1 with ab151756 at a 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] (ab151756)

Immunohistochemical analysis of paraffin embedded Human normal brain tissue using ab151756 showing +ve staining.

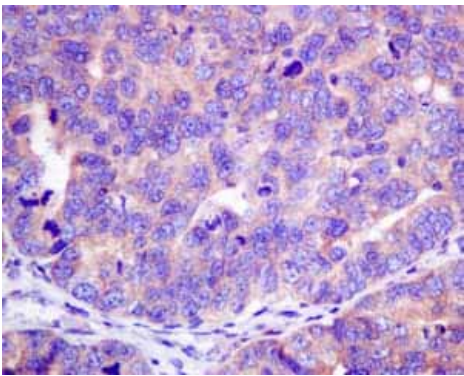
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] (ab151756)

Immunohistochemical analysis of paraffin embedded Human normal colon tissue using ab151756 showing +ve staining.

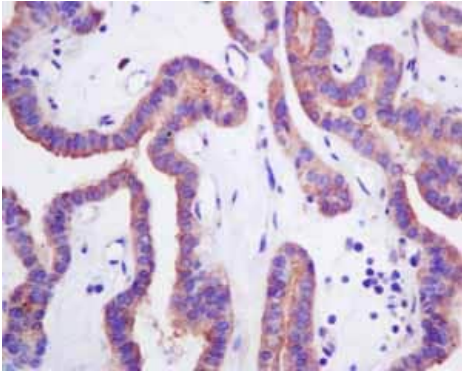
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] (ab151756)

Immunohistochemical analysis of paraffin embedded Human ovarian carcinoma tissue using ab151756 showing +ve staining.

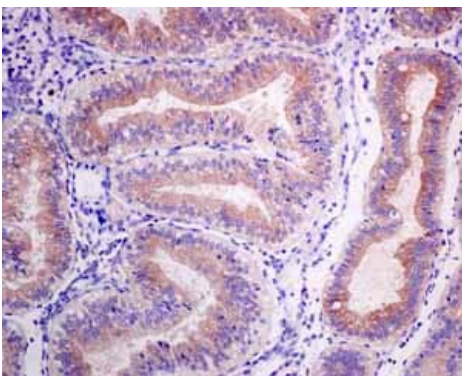
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



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] (ab151756)




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.


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK1 antibody [EPR10102] (ab151756)

### Why choose a recombinant antibody?

- 

**Research with confidence**  
Consistent and reproducible results
- 

**Long-term and scalable supply**  
Recombinant technology
- 

**Success from the first experiment**  
Confirmed specificity
- 

**Ethical standards compliant**  
Animal-free production

Anti-HOOK1 antibody [EPR10102] (ab151756)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors