

## Product datasheet

# Anti-HOOK2 antibody [EPR8673] ab133691

Recombinant RabMAb

★★★★☆ 1 Abreviews 1 References 4 Images

### Overview

<b>Product name</b>	Anti-HOOK2 antibody [EPR8673]
<b>Description</b>	Rabbit monoclonal [EPR8673] to HOOK2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> ICC/IF or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human HOOK2 aa 1-100. The exact sequence is proprietary.
<b>Positive control</b>	HeLa, 293T and HepG2 whole cell lysate ( <a href="#">ab7900</a> ); Human esophageal carcinoma tissue.
<b>General notes</b>	

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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> 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<sup>™</sup> guarantee.

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

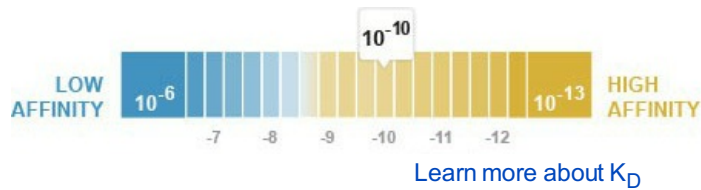
We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 1.02 x 10 <sup>-10</sup> M



<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8673
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab133691** 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		1/1000 - 1/10000. Detects a band of approximately 83 kDa (predicted molecular weight: 83 kDa).
IHC-P	★★★★☆	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

<b>Application notes</b>	Is unsuitable for ICC/IF or IP.
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## Target

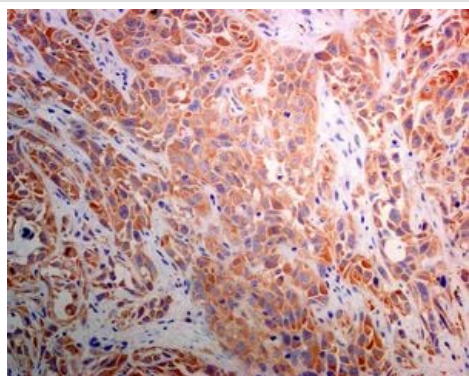
<b>Relevance</b>	HOOK2 is a member of the Hook protein family. Hook proteins are cytosolic coiled-coil proteins that contain conserved N-terminal domains, which attach to microtubules, and more divergent C-terminal domains, which mediate binding to organelles. HOOK2 localizes to the centrosome through all phases of the cell cycle. Interference with HOOK2 function results in the loss of the
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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.

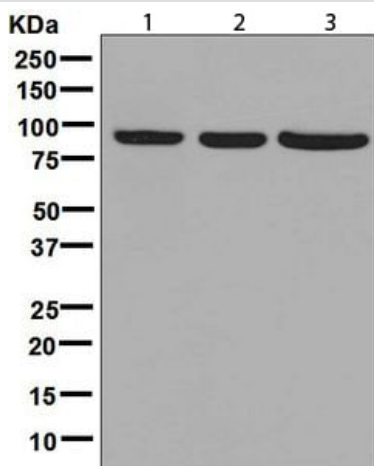
### Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HOOK2 antibody [EPR8673] (ab133691)

Immunohistochemical analysis of paraffin-embedded Human esophageal carcinoma tissue labelling HOOK2 with ab133691 at 1/100 dilution.

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



Western blot - Anti-HOOK2 antibody [EPR8673] (ab133691)

**All lanes** : Anti-HOOK2 antibody [EPR8673] (ab133691) at 1/1000 dilution

**Lane 1** : HeLa cell lysate

**Lane 2** : 293T cell lysate

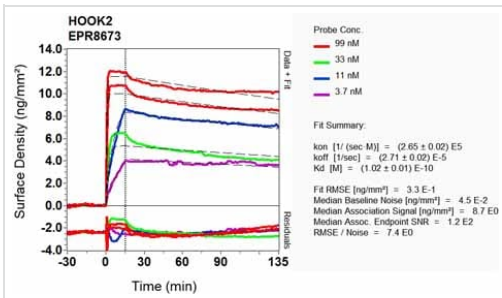
**Lane 3** : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Goat anti-Rabbit HRP at 1/2000 dilution

**Predicted band size:** 83 kDa



OI-RD Scanning - Anti-HOOK2 antibody [EPR8673]  
(ab133691)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-HOOK2 antibody [EPR8673] (ab133691)

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

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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