abcam

Product datasheet

Anti-HOOK2 antibody [EPR8673] ab133691



★★★★★ 1 Abreviews 1 References 4 Images

Overview

Product name Anti-HOOK2 antibody [EPR8673]

Description Rabbit monoclonal [EPR8673] to HOOK2

Host species Rabbit

Tested applications Suitable for: WB. IHC-P

Unsuitable for: ICC/IF or IP

Species reactivity Reacts with: Human

Predicted to work with: Mouse, Rat

Immunogen Synthetic peptide within Human HOOK2 aa 1-100. The exact sequence is proprietary.

 $\label{eq:hela} \textit{HeLa}, 293\textit{T} \ \textit{and} \ \textit{HepG2} \ \textit{whole cell lysate} \ (\underline{\textit{ab7900}}); \ \textit{Human esophageal carcinoma tissue}.$ Positive control

General notes 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**.

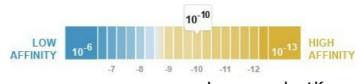
Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

pH: 7.20

 $K_D = 1.02 \times 10^{-10} M$ Dissociation constant (K_D)



Learn more about K_D

Storage buffer

Preservative: 0.01% Sodium azide

Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

supernatant

Purity Protein A purified

Clonality Monoclonal
Clone number EPR8673

Isotype IgG

Applications

The Abpromise guarantee

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)	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes

Is unsuitable for ICC/IF or IP.

Target

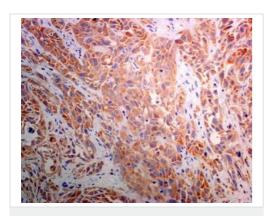
Relevance

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.

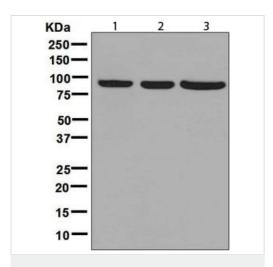
Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded 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

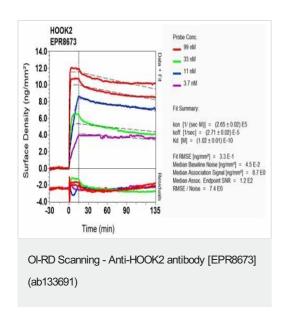
Lane 1 : HeLa cell lysate
Lane 2 : 293T cell lysate
Lane 3 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 83 kDa



Equilibrium disassociation constant (K_D) Learn more about K_D

Click here to learn more about K_D



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