


Product datasheet

Anti-RNF31/HOIP antibody ab46322

★★★★☆ [5 Abreviews](#) [20 References](#) [3 Images](#)

Overview

Product name	Anti-RNF31/HOIP antibody
Description	Rabbit polyclonal to RNF31/HOIP
Host species	Rabbit
Specificity	Replenishment batches of ab46322 are tested in WB. Previous batches were additionally validated in ICC/IF. This application is still expected to work and is covered by our Abpromise guarantee.
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab46322 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		
WB	★★★★★ (5)	

Application notes

ChIP: Use at an assay dependent dilution (PMID 19237537).

ICC/IF: Use at a concentration of 1 µg/ml.

WB: 1/250. Detects a band of approximately 116 kDa (predicted molecular weight: 119 kDa).

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

E3 ubiquitin-protein ligase component of the LUBAC complex which conjugates linear polyubiquitin chains in a head-to-tail manner to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation. LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways. Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation. LUBAC is proposed to be recruited to the TNF-R1 signaling complex (TNF-RSC) following polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear polyubiquitin to IKBKG and possibly other components contributing to the stability of the complex. Binds polyubiquitin of different linkage types.

Tissue specificity

Expressed in both normal and transformed breast epithelial cell lines.

Sequence similarities

Contains 2 IBR-type zinc fingers.

Contains 3 RanBP2-type zinc fingers.

Contains 1 RING-type zinc finger.

Contains 1 UBA domain.

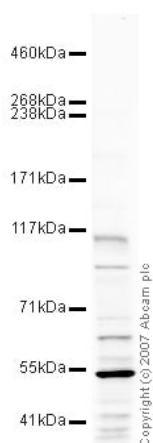
Domain

The RanBP2-type zinc fingers mediate the specific interaction with ubiquitin.

Cellular localization

Cytoplasm.

Images



Western blot - Anti-RNF31/HOIP antibody (ab46322)

Anti-RNF31/HOIP antibody (ab46322) at 1/250 dilution + Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate at 10 µg

Secondary

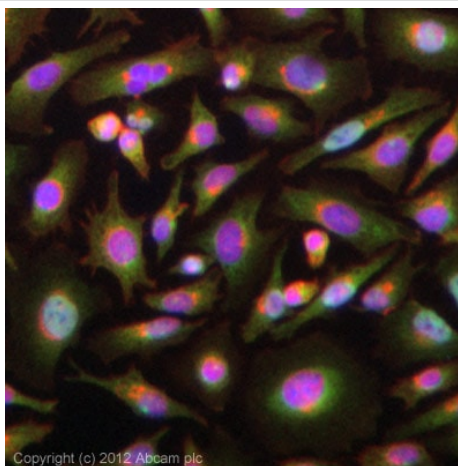
IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 119 kDa

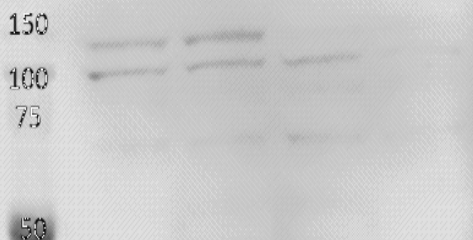
Observed band size: 116 kDa

Additional bands at: 105 kDa (possible isoform), 50 kDa (possible isoform), 60 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-RNF31/HOIP antibody (ab46322)

ICC/IF image of ab46322 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab46322, 5µg/ml) overnight at +4°C. The secondary antibody (green) was [ab96899](#), DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% formaldehyde fixed (10 min) Hek293 cells at 5µg/ml.



Western blot - Anti-RNF31/HOIP antibody (ab46322)

This image is courtesy of an anonymous Abreview

Western blot analysis of A549 cell lysate (100µg/lane) RNF31/HOIP with ab46322 at 1/1000. A HRP-conjugated Goat anti-rabbit polyclonal (1/10000) was used as the secondary antibody.

lane 1-2 : siCT A549

lane 3-4 : siHOIP A549

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