


## Product datasheet

# Anti-RNF20 antibody [EPR13562(B)] ab181104

Recombinant RabMAb

[2 References](#) [5 Images](#)

### Overview

<b>Product name</b>	Anti-RNF20 antibody [EPR13562(B)]
<b>Description</b>	Rabbit monoclonal [EPR13562(B)] to RNF20
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, Flow Cyt (Intra), IP, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IP: 293 cell lysate. Flow-Cyt (Intra): Jurkat cells. WB: Jurkat, 293, MCF-7 and HeLa cell lysates. ICC/IF: MCF7 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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR13562(B)
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab181104 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		1/200.
Flow Cyt (Intra)		1/290. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/50.
WB		1/1000 - 1/2000. Predicted molecular weight: 114 kDa.

## Target

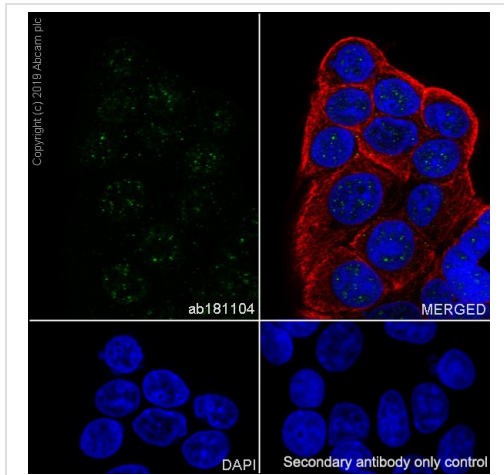
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<b>Function</b>	Component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation (H3K4me and H3K79me, respectively). It thereby plays a central role in histone code and gene regulation. The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B; reports about the cooperation with UBE2E1/UBCH are contradictory. Required for transcriptional activation of Hox genes. Recruited to the MDM2 promoter, probably by being recruited by p53/TP53, and thereby acts as a transcriptional coactivator. Mediates the polyubiquitination of isoform 2 of PA2G4 in cancer cells leading to its proteasome-mediated degradation.
<b>Tissue specificity</b>	Expressed in the normal brain and also in malignant gliomas (at protein level).
<b>Pathway</b>	Protein modification; protein ubiquitination.
<b>Sequence similarities</b>	Belongs to the BRE1 family. Contains 1 RING-type zinc finger.
<b>Cellular localization</b>	Nucleus.

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## Images

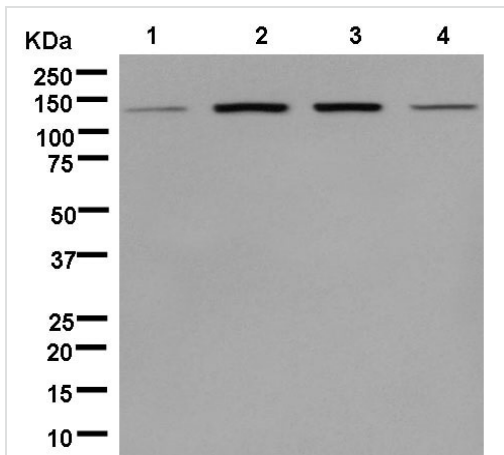
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Immunocytochemistry/ Immunofluorescence - Anti-RNF20 antibody [EPR13562(B)] (ab181104)

Immunofluorescent analysis of 100% Methanol-fixed, 0.1% TritonX-100 permeabilized MCF7 (human breast adenocarcinoma epithelial cell) cells labelling RNF20 with ab181104 at 1/200 (8.5 µg/ml) dilution, followed by **ab150077** AlexaFluor® 488 Goat anti-Rabbit secondary antibody at 1/1000 (2 µg/ml) dilution (Green). Confocal image showing nuclear staining in MCF7 cell line. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5 µg/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** AlexaFluor® 488 Goat anti-Rabbit secondary at 1/1000 (2 µg/ml) dilution.



Western blot - Anti-RNF20 antibody [EPR13562(B)] (ab181104)

**All lanes** : Anti-RNF20 antibody [EPR13562(B)] (ab181104) at 1/5000 dilution

**Lane 1** : Jurkat cell lysate

**Lane 2** : 293 cell lysate

**Lane 3** : MCF-7 cell lysate

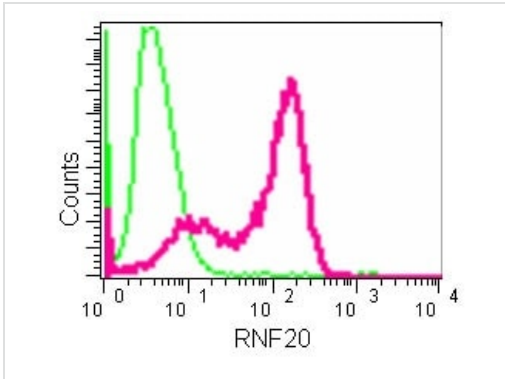
**Lane 4** : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

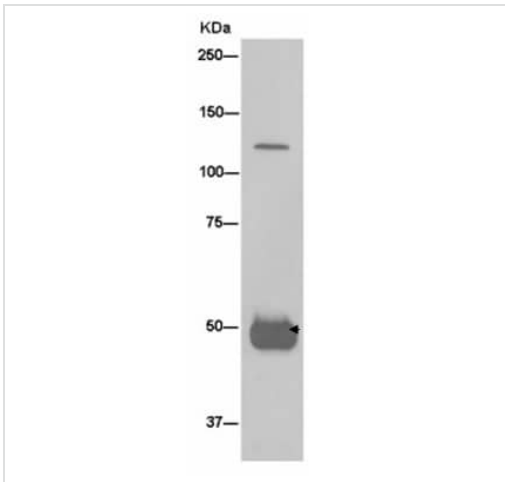
**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 114 kDa



Flow Cytometry (Intracellular) - Anti-RNF20 antibody [EPR13562(B)] (ab181104)





Intracellular Flow Cytometry analysis of 2% paraformaldehyde fixed Jurkat cells labeling RNF20 with ab181104 at 1/290 dilution (red) or a Rabbit monoclonal IgG Isotype control (green), followed by Goat anti rabbit IgG (FITC) at a 1/150 dilution.



Immunoprecipitation - Anti-RNF20 antibody [EPR13562(B)] (ab181104)

Western blot analysis on immunoprecipitation of 293 cell lysate labeling RNF20 using ab181104 at a 1/50 dilution and Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at a 1/1000 dilution and 5% NFDN/TBST blocking peptide.

**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-RNF20 antibody [EPR13562(B)] (ab181104)

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

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