# Product datasheet

## Anti-RNF11 antibody [EPR6820] ab154831

**Recombinant RabMAb**

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## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-RNF11 antibody [EPR6820]</th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit monoclonal [EPR6820] to RNF11</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
</tbody>
</table>
| **Tested applications** | Suitable for: WB, IHC-P, IP, Flow Cyt  
Unsuitable for: ICC |
| **Species reactivity** | Reacts with: Human |
| **Immunogen** | Synthetic peptide corresponding to residues near the C terminus of Human RNF11 (UniProt Q9Y3C5). |
| **Positive control** | MCF7 and Human fetal liver lysates; Human brain and kidney tissues; MCF7 cells. |
| **General notes** | Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.  
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.  
This product is a recombinant rabbit monoclonal antibody. |

## Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at -20°C.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | Preservative: 0.01% Sodium azide  
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant |
| **Purity** | Tissue culture supernatant |
| **Clonality** | Monoclonal |
| **Clone number** | EPR6820 |
| **Isotype** | IgG |

## Applications
**Application notes**

Is unsuitable for ICC.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td>1/50 - 1/100.</td>
<td></td>
</tr>
<tr>
<td>IP</td>
<td>1/10 - 1/100.</td>
<td></td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
<td></td>
</tr>
</tbody>
</table>

**Target**

**Function**

Essential component of a ubiquitin-editing protein complex, comprising also TNFAIP3, ITCH and TAX1BP1, that ensures the transient nature of inflammatory signaling pathways. Promotes the association of TNFAIP3 to RIPK1 after TNF stimulation. TNFAIP3 deubiquitinates ‘Lys-63’ polyubiquitin chains on RIPK1 and catalyzes the formation of ‘Lys-48’-polyubiquitin chains. This leads to RIPK1 proteasomal degradation and consequently termination of the TNF- or LPS-mediated activation of NF-kappa-B. Recruits STAMBP to the E3 ubiquitin-ligase SMURF2 for ubiquitination, leading to its degradation by the 26S proteasome.

**Tissue specificity**

Expressed at low levels in the lung, liver, kidney, pancreas, spleen, prostate, thymus, ovary, small intestine, colon, and peripheral blood lymphocytes, and, at intermediate levels, in the testis, heart, brain and placenta. Highest expression in the skeletal muscle. In the brain, expressed at different levels in several regions: high levels in the amygdala, moderate in the hippocampus and thalamus, low in the caudate and extremely low levels in the corpus callosum (at protein level). Restricted to neurons, enriched in somatodendritic compartments and excluded from white matter (at protein level). In substantia nigra, present in cell bodies and processes of dopaminergic and nondopaminergic cells (at protein level). In Parkinson disease, sequestered in Lewy bodies and neurites. Overexpressed in breast cancer cells, but not detected in the surrounding stroma and weakly, if at all, in normal breast epithelial cells (at protein level). Also expressed in several tumor cell lines.

**Sequence similarities**

Contains 1 RING-type zinc finger.

**Domain**

The WW-binding motif mediates interaction with NEDD4.

**Post-translational modifications**

Ubiquitinated in the presence of SMURF2 and UBE2D1, as well as WWP1. Phosphorylation by PKB/AKT1 may accelerate degradation by the proteasome.

**Cellular localization**

Cytoplasm. Nucleus. Predominantly cytoplasmic, when unphosphorylated, and nuclear, when phosphorylated by PKB/AKT1.
**Western blot** - Anti-RNF11 antibody [EPR6820] (ab154831)

*All lanes*: Anti-RNF11 antibody [EPR6820] (ab154831) at 1/1000 dilution

*Lane 1*: MCF7 cell lysate

*Lane 2*: Human fetal liver lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

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

**Predicted band size**: 17 kDa

Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling RNF11 with ab154831 at 1/50 dilution.

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling RNF11 with ab154831 at 1/50 dilution.
Flow cytometric analysis of permeabilized MCF7 cells labeling RNF11 with ab154831 at 1/100 dilution (red) compared to a rabbit IgG negative control (green).

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