Product datasheet

Anti-Noxa antibody ab36833

Overview

Product name: Anti-Noxa antibody
Description: Rabbit polyclonal to Noxa
Host species: Rabbit
Specificity: Although immunogen is from Mouse, customer feedback indicates that the results for Mouse are non-specific (see Abreviews).

Tested applications: Suitable for: WB, IHC-P, ICC/IF
Species reactivity: Reacts with: Human
Predicted to work with: Rat

Immunogen: Synthetic peptide corresponding to 17 amino acids at the amino terminus of mouse Noxa. (Peptide available as ab39823.)

Positive control: Human stomach tissue lysate.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C.
Storage buffer: Preservative: 0.02% Sodium azide
Constituent: PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab36833 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐☆</td>
<td>Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 11.6 (mouse), 6 (human) kDa. Can be blocked with Human Noxa peptide (ab39823).</td>
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<tr>
<td>Application</td>
<td>Abreviews</td>
<td>Notes</td>
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<tr>
<td>IHC-P</td>
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<td>Use a concentration of 1 µg/ml.</td>
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<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 1 - 5 µg/ml.</td>
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</table>

**Target**

**Function**
Promotes activation of caspases and apoptosis. Promotes mitochondrial membrane changes and efflux of apoptogenic proteins from the mitochondria. Contributes to p53/TP53-dependent apoptosis after radiation exposure. Promotes proteasomal degradation of MCL1. Competes with BAK1 for binding to MCL1 and can displace BAK1 from its binding site on MCL1 (By similarity). Competes with BIM/BCL2L11 for binding to MCL1 and can displace BIM/BCL2L11 from its binding site on MCL1.

**Tissue specificity**
Highly expressed in adult T-cell leukemia cell line.

**Sequence similarities**
Belongs to the PMAIP1 family.

**Domain**
The BH3 motif is essential for pro-apoptotic activity.

**Cellular localization**
Mitochondrion.

**Images**

![Western blot](Image1.png)

**Anti-Noxa antibody (ab36833) at 0.5 µg/ml + Human stomach cell lysate**

**Predicted band size:** 11.6 (mouse), 6 (human) kDa

**Observed band size:** 15 kDa

*why is the actual band size different from the predicted?*

![Immunohistochemistry](Image2.png)

**ab36833 at 1µg/ml staining Noxa in human stomach tissue by IHC**
ICC/IF image of ab36833 stained HeLa cells. The cells were 100% methanol fixed (5 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 (ab36833, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 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.

Immunofluorescence of Noxa in Human Stomach cells using ab36833 at 10 ug/ml.

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