## Overview

### Product name
Anti-RIP3 (phospho S232) antibody [EPR9516(N)-25]

### Description
Rabbit monoclonal [EPR9516(N)-25] to RIP3 (phospho S232)

### Host species
Rabbit

### Tested applications
Suitable for: ELISA, WB, Dot blot

### Species reactivity
Reacts with: Mouse

### Immunogen
Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Mouse RIP3 aa 200-300 (phospho S232). The exact sequence is proprietary.

Database link: Q9QZL0

### Positive control
WB: L-929 whole cell lysate treated with 20 ng/ml TNF alpha, 100 nM Smac mimetic, and 20 µM z-VAD for 8 h and then harvested; Untreated L-929 whole cell lysate; TSE (WT) whole cell lysate treated with 20 ng/ml TNF alpha, 100 nM Smac mimetic, and 20 µM z-VAD for 12 h and then harvested; TSE (KO MLKL) whole cell lysate treated with 20 ng/ml TNF alpha, 100 nM Smac mimetic, and 20 µM z-VAD for 12 h and then harvested.

### 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
Storage buffer
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity
Protein A purified

Clonality
Monoclonal

Clone number
EPR9516(N)-25

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab195117 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<th>Application</th>
<th>Abreviews</th>
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<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>WB</td>
<td>★★★★☆☆☆☆</td>
<td>1/1000. Detects a band of approximately 53 kDa (predicted molecular weight: 53 kDa).</td>
</tr>
<tr>
<td>Dot blot</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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Target

Function
Promotes apoptosis.

Tissue specificity
Detected at lower levels in heart, placenta, lung and kidney. Isoform 3 is significantly increased in colon and lung cancers.

Sequence similarities
Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Contains 1 protein kinase domain.

Post-translational modifications
Autophosphorylated.

Cellular localization
Cytoplasm.

Images
All lanes: Anti-RIP3 (phospho S232) antibody [EPR9516(N)-25] (ab195117) at 1/10000 dilution

Lane 1: Untreated L-929 (Mouse connective tissue fibroblast cell line) whole cell lysate
Lane 2: L-929 (Mouse connective tissue fibroblast cell line) whole cell lysate treated with phosphatase

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 53 kDa
Observed band size: 53 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes: Anti-RIP3 (phospho S232) antibody [EPR9516(N)-25] (ab195117) at 1/2000 dilution

Lane 1: Untreated TSE (WT) whole cell lysate
Lane 2: TSE (WT) whole cell lysate treated with 20 ng/ml TNF alpha, 100 nM Smac mimetic, and 20 µM z-VAD for 12 h and then harvested
Lane 3: Untreated TSE (KO RIP3) whole cell lysate
Lane 4: TSE (KO RIP3) whole cell lysate treated with 20 ng/ml TNF alpha, 100 nM Smac mimetic, and 20 µM z-VAD for 12 h and then harvested
Lane 5: Untreated TSE (KO MLKL) whole cell lysate
Lane 6: TSE (KO MLKL) whole cell lysate treated with 20 ng/ml TNF alpha, 100 nM Smac mimetic, and 20 µM z-VAD for 12 h and then harvested

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/1000 dilution
Predicted band size: 53 kDa
Observed band size: 53 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Lysates were provided by Xiaodong Wang, National Institute of Biological Sciences, Beijing

Primary antibody: ab195117 at 1:1000 dilution (1.6μg/ml), secondary antibody: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:1000 dilution, Blocking and dilution buffer: 5% NFDM/TBST, Lane 1: RIP3 (phospho S232) phospho peptide, Lane 2: RIP3 Non-phospho peptide, Exposure time: 3 minutes.

We observed weak binding to the non-phospho peptide at very high concentrations.

Serially diluted ab195117 was bound to immobilized phospho or non-phospho (control) peptide demonstrating minimal cross-reactivity to the non-phosphorylated residue. Antigen - RIP3 (phospho S232) phospho peptide; RIP3 non-phospho peptide at 250 ng/ml. Primary antibody concentration range: 0 - 500 ng/ml. Secondary antibody - Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at 1:2500.

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

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