Anti-NOX1 antibody ab78016

Overview

Product name: Anti-NOX1 antibody
Description: Rabbit polyclonal to NOX1
Host species: Rabbit
Tested applications: Suitable for: WB, ELISA, IHC-P
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide derived from the C terminal of Human NOX1
Positive control: Human colon tissue.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer: Preservative: 0.01% Sodium azide
Constituents: 50% Glycerol, PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab78016 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>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 72 kDa (predicted molecular weight: 65 kDa).</td>
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<tr>
<td>ELISA</td>
<td></td>
<td>Use a concentration of 1 µg/ml.</td>
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<tr>
<td>IHC-P</td>
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<td>Use a concentration of 10 µg/ml.</td>
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</table>
**Function**

NOH-1S is a voltage-gated proton channel that mediates the H(+) currents of resting phagocytes and other tissues. It participates in the regulation of cellular pH and is blocked by zinc. NOH-1L is a pyridine nucleotide-dependent oxidoreductase that generates superoxide and might conduct H(+) ions as part of its electron transport mechanism, whereas NOH-1S does not contain an electron transport chain.

**Tissue specificity**

NOH-1L is detected in colon, uterus, prostate, and colon carcinoma, but not in peripheral blood leukocytes. NOH-1S is detected only in colon and colon carcinoma cells.

**Sequence similarities**

Contains 1 FAD-binding FR-type domain.

Contains 1 ferric oxidoreductase domain.

**Cellular localization**

Cell projection > invadopodium membrane.

**Images**

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NOX1 antibody (ab78016) at 10 µg/ml, staining NOX1 in Human colon by Immunohistochemistry using formalin-fixed, paraffin-embedded tissue.

- Anti-NOX1 antibody (ab78016) at 1 µg/ml + Human Prostate Tumor Lysate Tissue Lysate at 20 µg

  **Secondary**

  Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

  Developed using the ECL technique.

  Performed under reducing conditions.

  **Predicted band size**: 65 kDa
  **Observed band size**: 72 kDa

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

  **Additional bands at**: 45 kDa. We are unsure as to the identity of these extra bands.
Exposure time: 20 minutes

NOX1 contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.

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