Product datasheet

Anti-NOX1 antibody ab55831

Overview

Product name: Anti-NOX1 antibody
Description: Rabbit polyclonal to NOX1
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, WB, ELISA
Species reactivity: Reacts with: Mouse, Human, Pig
Immunogen: Synthetic peptide corresponding to C terminal residues of human NOX1.

Properties

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

Applications

Our Abpromise guarantee covers the use of ab55831 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>ICC/IF</td>
<td>★★★★★</td>
<td>Use a concentration of 1 µg/ml.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★☆☆</td>
<td>Use at an assay dependent concentration. Predicted molecular weight: 65 kDa.</td>
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<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent dilution.</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

**Immunocytochemistry/ Immunofluorescence - Anti-NOX1 antibody (ab55831)**

ICC/IF image of ab55831 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 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 (ab55831, 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.

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

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