**Product datasheet**

**Anti-NOX1 antibody ab55831**

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### Overview

**Product name**  
Anti-NOX1 antibody

**Description**  
Rabbit polyclonal to NOX1

**Host species**  
Rabbit

**Tested applications**  
Suitable for: ICC/IF

**Species reactivity**  
Reacts with: Human

**Immunogen**  
Synthetic peptide corresponding to C terminal residues of human NOX1.

**General notes**

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

**Storage buffer**  
pH: 7.2  
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

**The Abpromise guarantee**

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.
**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.

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**Images**

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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