




# Anti-NOX1 antibody ab121009

[8 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-NOX1 antibody
<b>Description</b>	Goat polyclonal to NOX1
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Rabbit, Guinea pig, Dog, Pig, Rhesus monkey, Gorilla 
<b>Immunogen</b>	Synthetic peptide: DKATDVTGLKQK with a Cysteine residue linker, corresponding to internal sequence amino acids 490-502 of Human NOX1 (NP_008983.2) or 441-453 of Human NOX1 (NP_039249.1).  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: HeLa, CaCo-2, A549 and U937 cell lysates; IHC-P: Human kidney tissue.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 99% Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab121009 is purified from Goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

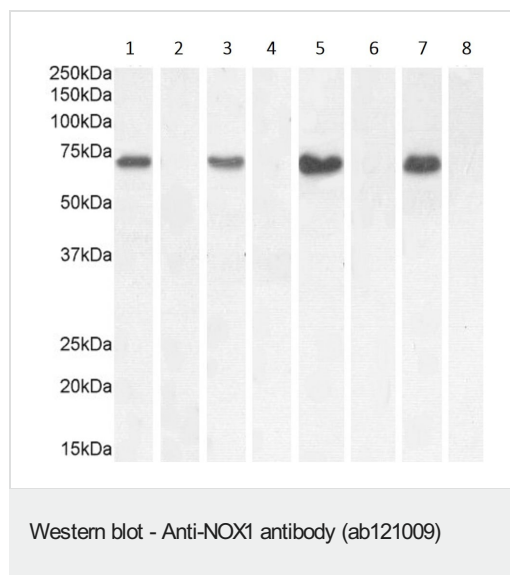
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab121009 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use a concentration of 0.3 - 1 µg/ml. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa). 1 hour primary incubation is recommended for this product.
<b>IHC-P</b>		Use a concentration of 7.5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Contains 1 FAD-binding FR-type domain. Contains 1 ferric oxidoreductase domain.
<b>Cellular localization</b>	Cell projection > invadopodium membrane.

## Images



**All lanes :** Anti-NOX1 antibody (ab121009) at 0.5 µg/ml

**Lane 1 :** CaCo-2 cell lysate

**Lane 2 :** CaCo-2 + peptide cell lysate

**Lane 3 :** HeLa cell lysate

**Lane 4 :** HeLa + peptide cell lysate

**Lane 5 :** A549 cell lysate

**Lane 6 :** A549 + peptide cell lysate

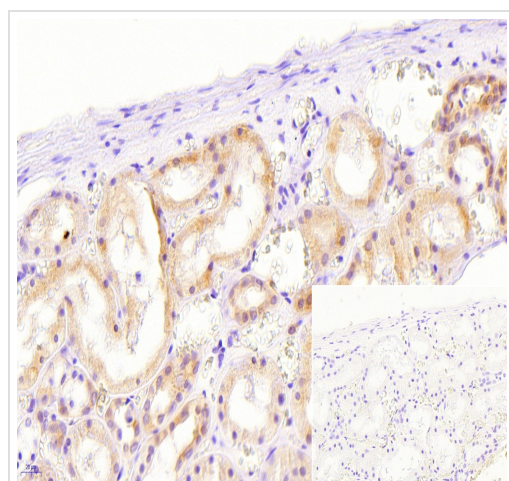
**Lane 7 :** U937 cell lysate

**Lane 8 :** U937 + peptide cell lysate

Lysates/proteins at 35 µg per lane.

**Predicted band size:** 65 kDa

Lysates in RIPA buffer. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NOX1 antibody (ab121009)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling NOX1 with ab121009 at 7.5 µg/mL. Heat mediated antigen retrieval was performed using citrate buffer pH 6. An HRP-conjugated secondary antibody was used. Counterstained with hematoxylin.

**Inset:** Negative control showing staining of paraffin embedded human kidney, with no primary antibody.

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

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