




Product datasheet

Anti-NOX2/gp91phox antibody ab106940

2 Images

Overview

Product name	Anti-NOX2/gp91phox antibody
Description	Goat polyclonal to NOX2/gp91phox
Host species	Goat
Tested applications	Suitable for: IHC, WB
Species reactivity	Reacts with: Human Predicted to work with: Dog 
Immunogen	Synthetic peptide corresponding to Human NOX2/gp91phox aa 151-163 (internal sequence). Sequence: C-SYLNFARKRIKNP Database link: P04839  Run BLAST with  Run BLAST with
Positive control	Human Peripheral Blood Mononucleocytes lysate.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>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, as well as customer reviews and Q&As.</p>

Properties

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

Applications

Our [Abpromise guarantee](#) covers the use of **ab106940** in the following tested applications.

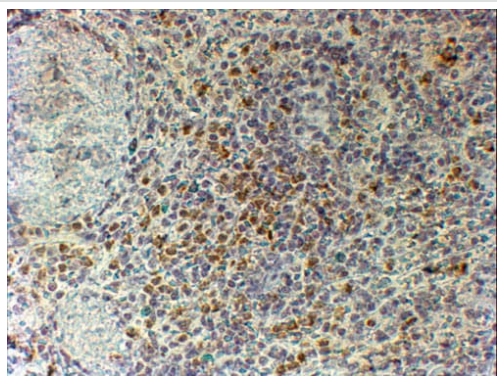
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC		Use a concentration of 2 - 4 µg/ml.
WB		Use a concentration of 0.03 - 0.1 µg/ml. Detects a band of approximately 85 kDa (predicted molecular weight: 65.3 kDa). 1 hour primary incubation is recommended for this product.

Target

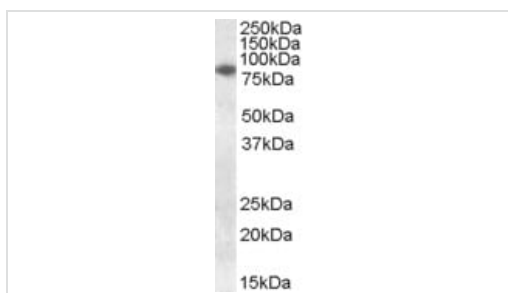
Function	Critical component of the membrane-bound oxidase of phagocytes that generates superoxide. It is the terminal component of a respiratory chain that transfers single electrons from cytoplasmic NADPH across the plasma membrane to molecular oxygen on the exterior. Also functions as a voltage-gated proton channel that mediates the H(+) currents of resting phagocytes. It participates in the regulation of cellular pH and is blocked by zinc.
Involvement in disease	Defects in CYBB are a cause of chronic granulomatous disease X-linked (XCGD) [MIM:306400]. Chronic granulomatous disease is a genetically heterogeneous disorder characterized by the inability of neutrophils and phagocytes to kill microbes that they have ingested. Patients suffer from life-threatening bacterial/fungal infections.
Sequence similarities	Contains 1 FAD-binding FR-type domain. Contains 1 ferric oxidoreductase domain.
Post-translational modifications	Glycosylated.
Cellular localization	Membrane.

Images



Immunohistochemistry - Anti-NOX2/gp91phox antibody (ab106940)

Immunohistochemical analysis of paraffin embedded Human Spleen tissue labeling NOX2/gp91phox with ab106940 at 2 ug/ml. Tissue underwent antigen retrieval in steam with citrate buffer (pH 6.0). The HRP-staining procedure was used for detection.



Western blot - Anti-NOX2/gp91phox antibody (ab106940)

Anti-NOX2/gp91phox antibody (ab106940) at 0.03 µg/ml + Peripheral Blood Mononucleocytes lysate at 35 µg

Developed using the ECL technique.

Predicted band size: 65.3 kDa

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

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