

# Anti-NOX2 / gp91phox Antibody

## ER1511-34



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	IF-Cell, IHC-P, FC, WB
<b>Molecular Wt:</b>	Predicted band size: 65 kDa

**Description:** Mox1 and the glycoprotein gp91-phox are largely related proteins that are essential components of the NADPH oxidase. The superoxide-generating NADPH oxidase is present in phagocytes, neuroepithelial bodies, vascular smooth muscle cells and endothelial cells. It includes a membrane-bound flavocytochrome containing two subunits, gp91-phox and p22-phox, and the cytosolic proteins p47-phox and p67-phox. The p22- and gp91-phox subunits also function as surface O<sub>2</sub> sensors that initiate cellular signaling in response to hypoxic conditions. Mox1 and gp91 contain identical C-terminal sequence identity, yet they have distinct expression patterns. gp91-phox is expressed in eosinophils, neutro-phils, monocytes and B-lymphocytes, whereas Mox1 is predominantly detected in the colon, and low expression is also detected in the uterus and prostate. Mox1 is also upregulated in vascular smooth-muscle cells in response to PDGF stimulation, which collectively indicates that Mox1 may function analogously to gp91-phox, yet regulate the NADPH superoxide production in non-phagocytic cells.

<b>Immunogen:</b>	Synthetic peptide corresponding to C-terminal human NOX2.
<b>Positive control:</b>	RAW264.7 cell lysate, mouse spleen tissue lysate, rat spleen tissue lysate, RAW264.7, human liver tissue, human spleen tissue, human tonsil tissue, mouse spleen tissue.
<b>Subcellular location:</b>	Cell membrane.
<b>Database links:</b>	SwissProt: P04839 Human   Q61093 Mouse
<b>Recommended Dilutions:</b>	
IF-Cell	1:50-1:200
IHC-P	1:500-1:1,000
FC	1:50-1:100
WB	1:2,000
<b>Storage Buffer:</b>	1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
<b>Storage Instruction:</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.
<b>Purity:</b>	Immunogen affinity purified.

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Orders:0086-571-88062880

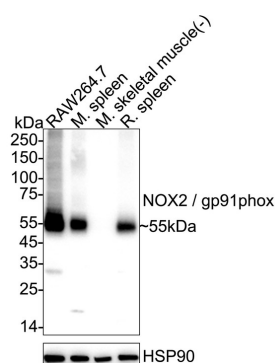
Technical:0086-571-89986345

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## Images

**Fig1:** Western blot analysis of NOX2 / gp91phox on different lysates with Rabbit anti-NOX2 / gp91phox antibody (ER1511-34) at 1/2,000 dilution.



Lane 1: RAW264.7 cell lysate (20 µg/Lane)

Lane 2: Mouse spleen tissue lysate (40 µg/Lane)

Lane 3: Mouse skeletal muscle tissue lysate (negative) (40 µg/Lane)

Lane 4: Rat spleen tissue lysate (40 µg/Lane)

Predicted band size: 65 kDa

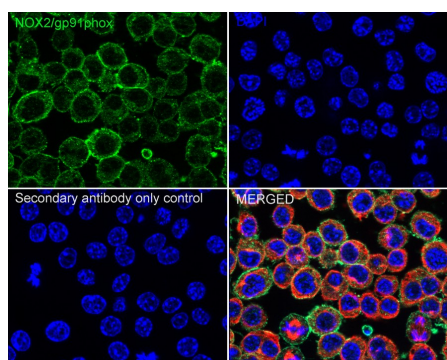
Observed band size: 55 kDa

Exposure time: 20 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (ER1511-34) at 1/2,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Immunocytochemistry analysis of RAW264.7 cells labeling NOX2 / gp91phox with Rabbit anti-NOX2 / gp91phox antibody (ER1511-34) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-NOX2 / gp91phox antibody (ER1511-34) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (HA601187, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

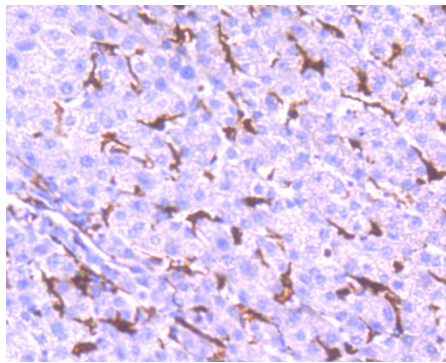
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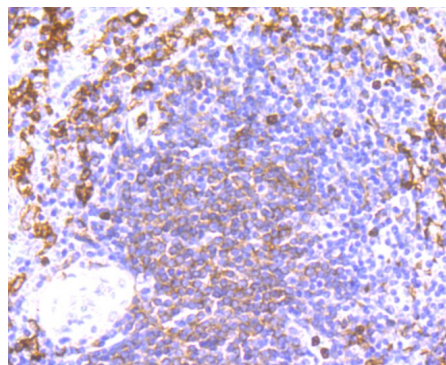
Technical:0086-571-89986345

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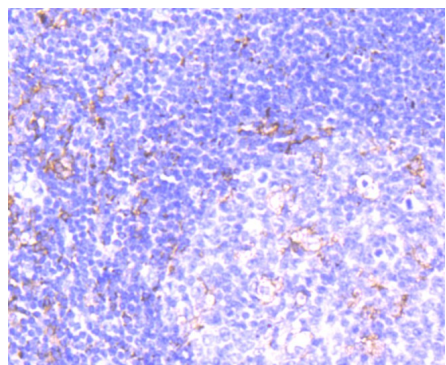
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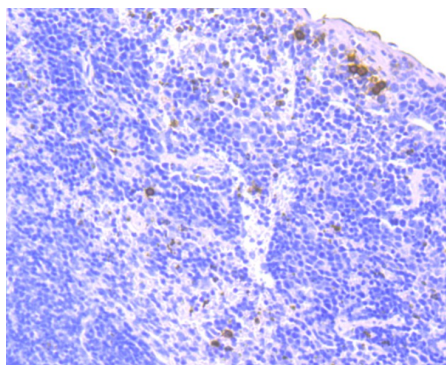
**Fig3:** Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-NOX2/gp91phox antibody. Counter stained with hematoxylin.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-NOX2/gp91phox antibody. Counter stained with hematoxylin.



**Fig5:** Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-NOX2/gp91phox antibody. Counter stained with hematoxylin.



**Fig6:** Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-NOX2/gp91phox antibody. Counter stained with hematoxylin.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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