gp91-phox/NOX2 polyclonal antibody

Catalog: BS90591 Host: Rabbit Reactivity: Human, Mouse

BackGround:

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 O2 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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

65 kDa

Swiss-Prot:

P04839(Human) Q61093(Mouse)

Purification&Purity:

Peptide affinity purified.

Applications:

WB:1:500-1:2,000

ICC:1:50-1:200

IHC:1:500-1:1,000

FC:1:50-1:100

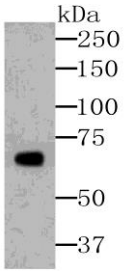
Storage&Stability:

Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

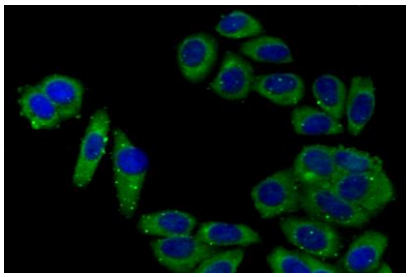
Specificity:

gp91-phox/NOX2 polyclonal antibody detects endogenous levels of gp91-phox/NOX2 protein.

DATA:



Western blot analysis of NOX2/gp91phox on A549 cell lysates using anti-NOX2/gp91phox antibody at 1/500 dilution.



ICC staining NOX2/gp91phox in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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