bs-3683R **[Primary Antibody]**

NADPH oxidase 3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 50508 **SWISS:** Q9HBY0

Target: NADPH oxidase 3

Immunogen: KLH conjugated synthetic peptide derived from human Nox3/NADPH oxidase 3: 65-160/568.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a member of the NOX family of NADPH oxidases. These enzymes have the capacity to generate superoxide and other reactive oxygen species (ROS) and transport electrons across the plasma membrane. The ROS generated by family members have been implicated in numerous biological functions including host defense, posttranlational processing of proteins, cellular signaling, regulation of gene expression, and cell differentiation. The protein encoded by this gene is expressed predominantly in the inner ear and is involved in the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity.

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: (predicted: Human, Mouse, Rat, Pig, Cow, Dog, Horse)

Predicted MW.: 65 kDa

Subcellular Location: Secreted ,Cell membrane ,Cytoplasm

SELECTED CITATIONS

- **[IF=9.83]** Wakatsuki, Shuji, et al. "Oxidative stress–dependent phosphorylation activates ZNRF1 to induce neuronal/axonal degeneration." The Journal of cell biology(2015): jcb-201506102. IHC ;="Mouse". 26572622
- **[IF=5.33]** Shuji Wakatsuki. et al. Selective phosphorylation of serine 345 on p47-phox serves as a priming signal of ROS-mediated axonal degeneration. Exp Neurol. 2022 Jun;352:114024 WB ;Mouse. 10.1016/j.expneurol.2022.114024
- **[IF=4.011]** Kim YR et al. Identification of highly potent and selective inhibitor, TIPTP, of the p22phox-Rubicon axis as a therapeutic agent for rheumatoid arthritis. Sci Rep. 2020 Mar 12;10(1):4570. IP ;mouse. 32165681
- **[IF=3.448]** Ma Q et al. Non‐coenzyme role of vitamin B1 in RANKL‐induced osteoclastogenesis and ovariectomy induced osteoporosis. J Cell Biochem. 2020 Feb 26. WB ;mouse. 32100911