

Anti-NOX4 Rabbit Monoclonal Antibody

Catalog Number: M00403

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Overview

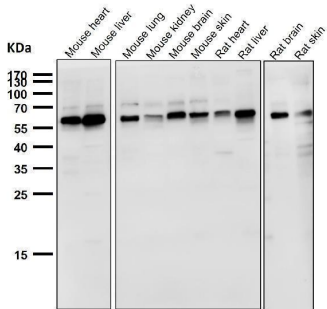
Product Name	Anti-NOX4 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NOX4 Rabbit Monoclonal Antibody catalog # M00403. Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, IF, IHC, ICC, WB
Clonality	Monoclonal E-14
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9NPH5

Technical Details

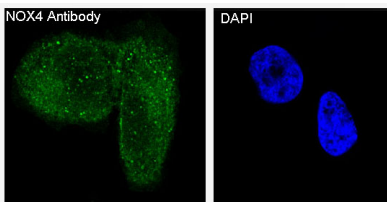
Immunogen	A synthesized peptide derived from human NOX4
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000

	IHC 1:50-200 ICC/IF 1:50-200 IP 1:20
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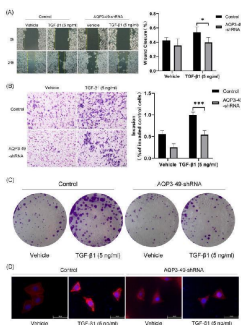
Anti-NOX4 Rabbit Monoclonal Antibody (M00403) Images



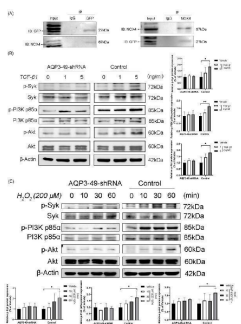
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



Immunofluorescent analysis of HeLa cells, using NOX4 Antibody .

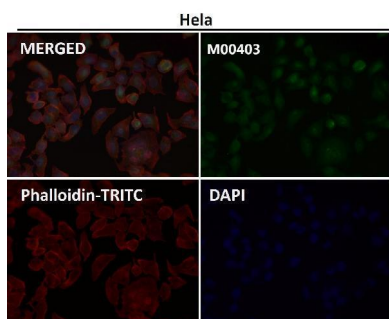
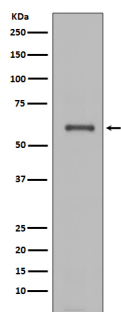


Knockdown of AQP3 attenuated the effects of NOX4-derived H₂O₂ on migration, invasion, and proliferation of HeLa cells. (A) Scratch was made in 6-well plates, and 24 h later, fluorescence microscopy was used to examine the migration of control or AQP3-49-shRNA cells in response to TGF-beta1 training. (B) The invasion efficiency of control and AQP3-49-shRNA HeLa cells under TGF-beta1 was examined with an 8-um-pore-size transwell chamber. (C) Colony formation assays were used to test the effects of TGF-beta1 on HeLa cell growth. (D) Fluorescence microscopy analysis of visualized F-actin polymerization of control or AQP3-49-shRNA cells with TRITC Phalloidin after TGF-beta1 stimulation (5 ng/ml, 30 min). Data were presented as mean $\pm$ SD. *, P < 0.05, ***, P < 0.001. Index in PubMed under a CC BY license. PMID: 38230207

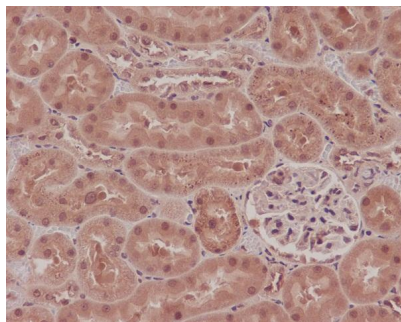


AQP3 regulates Syk phosphorylation and activation of the PI3K/Akt signaling pathway in HeLa cells. (A) Collection of lentiviral control (sh-control) HeLa cells loaded with Green Fluorescent Protein Tag (GFP), CO-Immunoprecipitation detection analyzes the interaction of AQP3 and NOX4 complexes in HeLa cells. (B) Control and AQP3-49-shRNA HeLa cells were treated with different concentrations of TGF-beta1 for 30 minutes, and the phosphorylation levels of Syk and PI3K/Akt were analyzed by western blot. (C) Western blot was used to detect the expression of Syk, PI3K p85alpha, and Akt phosphorylation in control and AQP3-49-shRNA HeLa cells treated with 200 uM H₂O₂ at different times. beta-Actin was used as a loading control. Data were presented as mean $\pm$ SD. *, P < 0.05, **, P < 0.01. Index in PubMed under a CC BY license. PMID: 38230207

Western blot analysis of NOX4 expression in JAR cell lysate.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunohistochemical analysis of paraffin-embedded rat kidney, using NOX4 Antibody .

4 Publications Citing This Product

1. PubMed ID: 31398421, Wang D, Yan Z, Bu L, An C, Deng B, Zhang J, Rao J, Cheng L, Zhang J, Zhang B, Xie J. Protective effect of peptide DR8 on bleomycin-induced pulmonary fibrosis by regulating the TGF-beta/MAPK signaling pathway and oxidative stress. *Toxicol Appl Pharmacol*. 2019 Nov 1;382:114703. doi:10.1016/j.taap.2019.114703. Epub 2019 Aug 6. PMID:31398421.
2. PubMed ID: 28666738, Zhao, X., Li, R., Liu, Y., Zhang, X., Zhang, M., Zeng, Z.,..., & Wang, Y. (2017). Polydatin protects against carbon tetrachloride-induced liver fibrosis in mice. *Archives of Biochemistry and Biophysics*, 629, 1-7. Advance online publication. doi: 10....
3. PubMed ID: 27803283, Obligatory role for GPER in cardiovascular aging and disease^

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Anti-NOX4 Rabbit Monoclonal Antibody

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