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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

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	IHC, 1:50-200 ICC/IF, 1:50-200 IP, 1:20

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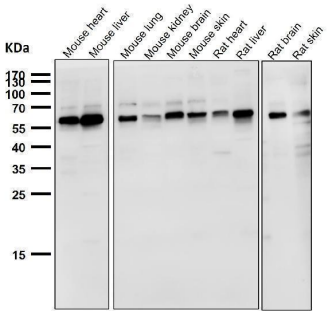
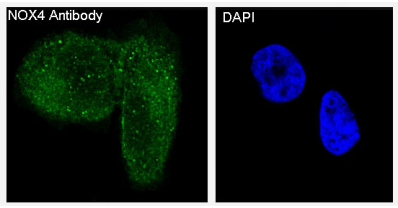
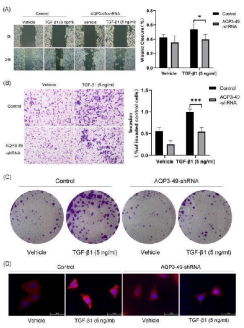
Anti-NOX4 Rabbit Monoclonal Antibody (M00403) Images



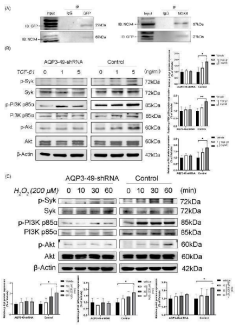
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



Immunofluorescent analysis of HeLa cells, using NOX4 Antibody .



Knockdown of AQP3 attenuated the effects of NOX4-derived H 2 O 2 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 ± 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 H 2 O 2 at different times. beta-Actin was used as a loading control. Data were presented as mean ± 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.

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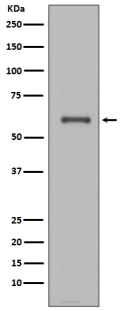
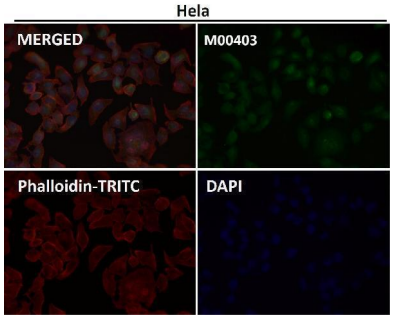
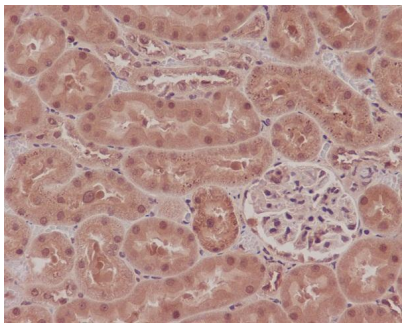




Immunofluorescent analysis using the Antibody at 1:50 dilution.



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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