10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Rabbit Anti-NADPH oxidase 4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52323

Specification

Rabbit Anti-NADPH oxidase 4 Polyclonal Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q9JHI8
Reactivity	**Human, Mouse, Rat, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**66519**

Rabbit Anti-NADPH oxidase 4 Polyclonal Antibody - Additional Information

Gene ID 50490

Other Names
AI64821; NADPH oxidase 4; Kidney oxidase-1; KOX-1; Kidney superoxide-producing NADPH oxidase; Renal NAD(P)H-oxidase; Superoxide-generating NADPH oxidase 4; Nox4; Renox

Dilution
WB~~1:100~1:500<br \>IHC-P~~1:100~1:500

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

Rabbit Anti-NADPH oxidase 4 Polyclonal Antibody - Protein Information

Name Nox4

Synonyms Renox

Function
NADPH oxidase that catalyzes predominantly the reduction of oxygen to H2O2 (By similarity). Can also catalyze to a smaller extent, the reduction of oxygen to superoxide (PubMed:10869423, PubMed:11098048, PubMed:15638999). May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel and HIF1A activity (By similarity). May regulate insulin signaling cascade (By similarity). May play a role in apoptosis, bone resorption and lipolysaccharide- mediated activation of NFKB (By similarity). May produce superoxide in the nucleus and play a role in regulating gene expression upon cell stimulation (By

similarity).

Cellular Location
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9NPH5}; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:Q9NPH5}; Multi-pass membrane protein. Cell junction, focal adhesion {ECO:0000250|UniProtKB:Q924V1}. Nucleus {ECO:0000250|UniProtKB:Q9NPH5}

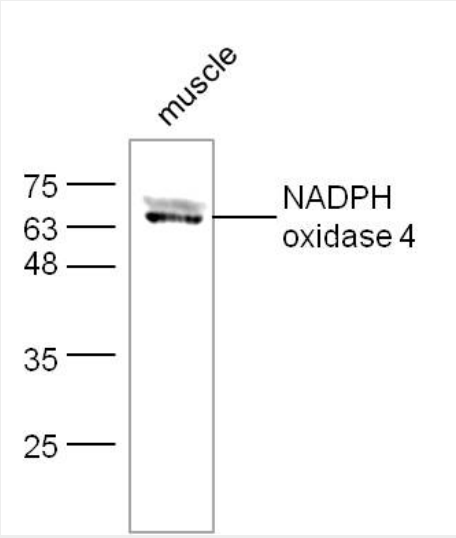
Tissue Location
EXpressed in brain, in all layers of the cerebellum, in pyramidal cells of the Ammon horn and in Purkinje cells (at protein level). Expressed in osteoclasts, leukocytes, kidney, liver and lung.

Rabbit Anti-NADPH oxidase 4 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

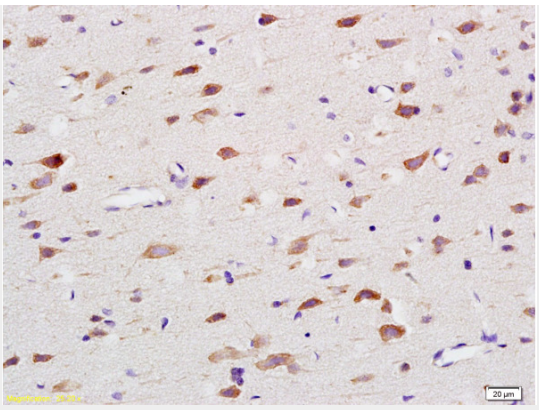
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Rabbit Anti-NADPH oxidase 4 Polyclonal Antibody - Images



Mouse muscle lysates probed with Rabbit Anti-NADPH oxidase 4 Polyclonal Antibody, Unconjugated (AP52323) at 1:300 overnight at 4˚C. Followed by conjugation to secondary antibody at 1:500 for 90 min at 37˚C.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Formalin-fixed and paraffin embedded rat brain labeled with Anti-Nox4/NADH Polyclonal Antibody, Unconjugated (AP52323) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

Rabbit Anti-NADPH oxidase 4 Polyclonal Antibody - Background

Constitutive NADPH oxidase which generates superoxide intracellularly upon formation of a complex with CYBA/p22phox. Regulates signaling cascades probably through phosphatases inhibition. May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel and HIF1A activity. May regulate insulin signaling cascade. May play a role in apoptosis, bone resorption and lipolysaccharide-mediated activation of NFKB.