NOX4
Polyclonal ANTIBODY
Catalog Number: 14347-1-AP

Basic Information
Catalog Number: 14347-1-AP
Size: 43 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG5687

GenBank Accession Number: BC0410105
GeneID (NCBI): 50507
Full Name: NADPH oxidase 4
Calculated MW: 67 kDa
Observed MW: 62 kDa

Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 μg for IP and 1:100-1:2000 for WB
IHC: 1:100-1:400
IF: 1:10-1:100

Recommended Applications:
Tested Applications: FC, IF, IHC, IP, WB, ELISA
Cited Applications: FC, IF, IHC, IP, WB

Species Specificity:
human, mouse
Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information
NOX4 (NADPH oxidase 4) is a phagocyte-type oxidase, similar to that responsible for the production of large amounts of reactive oxygen species (ROS) in neutrophil granulocytes with resultant antimicrobial activity and it has been postulated to function in the kidney as an oxygen sensor that regulates the synthesis of erythropoietin in the renal cortex. NOX4 has some isoforms and the molecular weight are 7KDa, 26-32KDa, 58-67KDa, 75-80KDa (PMID: 11728818).

Notable Publications
Author | Pubmed ID | Journal | Application
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Yui Takashina | 30241394 | Nutrients | WB, IP
Yumei Rong | 30195109 | Int Immunopharmacol | WB, IHC
Huimin Hu | 30315526 | Inflammation | WB

Storage
Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
BxPC-3 cells were subjected to SDS PAGE followed by western blot with 14347-1-AP NOX4 Antibody at dilution of 1:2000 and incubated at room temperature for 1.5 hours.


Immunofluorescent analysis of BxPC-3 cells using 14347-1-AP NOX4 Antibody at dilution of 1:25 and Alexa Fluor 488-conjugated Anti-Rabbit IgG antibody at dilution 1:1000.

Immunofluorescent analysis of BxPC-3 cells using 14347-1-AP NOX4 Antibody at dilution of 1:25 and Alexa Fluor 488-conjugated Anti-Rabbit IgG antibody at dilution 1:1000.

Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14347-1-AP NOX4 Antibody at dilution of 1:200 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14347-1-AP NOX4 Antibody at dilution of 1:200 (under 40x lens).

Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14347-1-AP NOX4 Antibody at dilution of 1:200 (under 40x lens).

1X10^6 HeLa cells were stained with 0.2ug NOX4 antibody (14347-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated Anti-Rabbit IgG antibody at dilution 1:1000.