

For Research Use Only

NOX4 Polyclonal ANTIBODY



Catalog Number: 14347-1-AP

Featured Product

42 Publications

Basic Information

Catalog Number:

14347-1-AP

Size:

mg/ml

Source:

Rabbit

Isotype:

IgG

Purification Method:

Antigen affinity purification

Immunogen Catalog Number:

AG5687

GenBank Accession Number:

BC040105

GeneID (NCBI):

50507

Full Name:

NADPH oxidase 4

Calculated MW:

67 kDa

Observed MW:

62 kDa

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB

IHC 1:100-1:400

IF 1:10-1:100

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

Positive Controls:

WB : HeLa cells; BxPC-3 cells, HEK-293 cells, HUVEC cells

IP : HEK-293 cells;

IHC : human kidney tissue;

IF : BxPC-3 cells;

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 7 isoforms and the molecular weight are 7kDa, 26-32kDa, 58-67kDa, 75-80kDa (PMID:11728818).

Notable Publications

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

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS, pH 7.3.

Aliquoting is unnecessary for -20°C storage

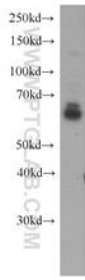
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

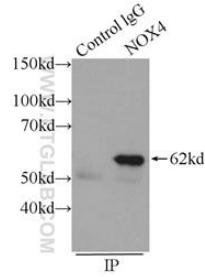
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

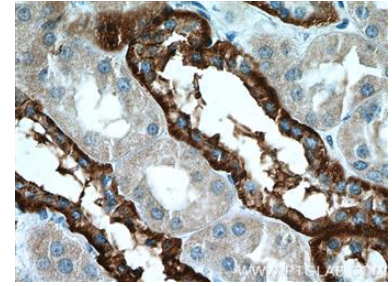
Selected Validation Data



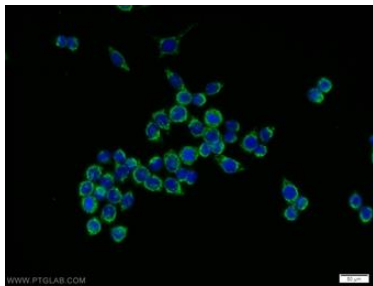
HeLa cells were subjected to SDS PAGE followed by western blot with 14347-1-AP(NOX4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours



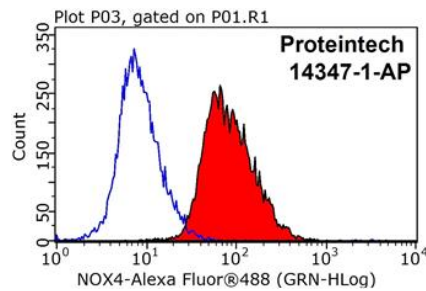
IP Result of anti-NOX4 (IP:14347-1-AP, 3ug; Detection:14347-1-AP 1:1000) with HEK-293 cells lysate 1700ug.



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



Immunofluorescent analysis of BxPC-3 cells using 14347-1-AP(NOX4 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



1X10⁶ 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 AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.