

# NOX4 Polyclonal ANTIBODY

Catalog Number: 14347-1-AP

Featured Product

27 Publications

## Basic Information

**Catalog Number:**  
14347-1-AP

**Size:**  
43 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AC5687

**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 µg 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, WB

**Species Specificity:**

human, mouse

**Cited Species:**

human, mouse, rat

**Positive Controls:**

WB : HeLa cells; BxPC-3 cells, HEK-293 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 (PMD:11728818).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yue Jin	25305479	Toxicol Lett	WB
Jing Zhang	27866193	Cell Physiol Biochem	WB, IHC
Jing Zhou	27805062	Sci Rep	WB, IF

## Storage

**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

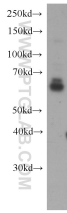
For technical support and original validation data for this product please contact:

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

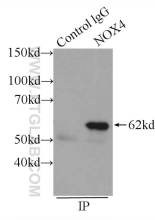
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

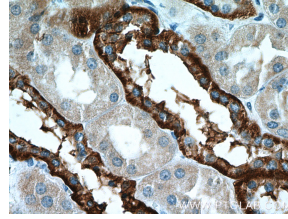
## Selected Validation Data



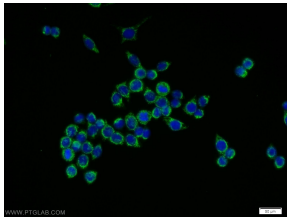
HeLa cells were subjected to SDS PAGE followed by western blot with 14347-1-AP( NOX4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours



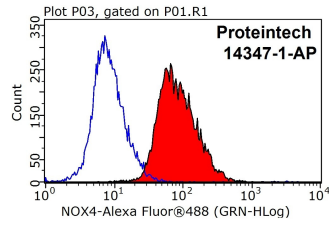
IP Result of anti-NOX4 (IP:14347-1-AP 3ug; Detection:14347-1-AP 1:1000) with HEK-293 cells lysate 1700ug.



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)



1X10<sup>6</sup> 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.