

À des fins de recherche uniquement

# Anticorps Polyclonal de lapin anti-NOX4



Numéro de catalogue: 14347-1-AP

Phare

224 Publications

## Informations de base

Numéro de catalogue:

14347-1-AP

Taille:

150ul, Concentration: 450 µg/ml by Nanodrop;

Hôte:

Lapin

Isotype:

IgG

Immunogen Catalog Number:

AG5687

Numéro d'acquisition GenBank:

BC040105

Identification du gène (NCBI):

50507

Nom complet:

NADPH oxidase 4

MW calculé

67 kDa

MW observés:

62 kDa

Méthode de purification:

Purification par affinité contre l'antigène

Dilutions recommandées:

WB 1:1000-1:8000

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

IHC 1:50-1:500

IF 1:10-1:100

## Applications

Applications testées:

FC, IF, IHC, IP, WB, ELISA

Demandes citées:

CoIP, FC, IF, IHC, IP, WB

Spécificité de l'espèce:

Humain, rat, souris

Espèces citées:

Humain, poisson-zèbre, porc, rat, souris

Contrôles positifs:

WB : cellules BxPC-3, cellules HEK-293, cellules HeLa, cellules JAR, tissu pulmonaire de souris, tissu rénal de souris

IP : cellules HEK-293,

IHC : tissu rénal humain,

IF : cellules BxPC-3,

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (\*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.**

## Informations générales

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. Studies have reported molecular masses of Nox4 protein by western blot analysis ranging from 55 to 80 kDa. The truncated NOX4 splice variant D (28 kDa) lacks the majority of the transmembrane domain and has been shown to produce higher levels of ROS and DNA damage compared to its prototype. NOX4D has previously been shown to localise to the nucleus and nucleolus in various cell types and is implicated in the generation of reactive oxygen species (ROS) and DNA damage. (PMID: 11728818, PMID: 29285262, PMID: 14670934)

## Publications notables

Autrice	Pubmed ID	Journal	Application
Zhijing Song	36246605	Front Genet	WB
Lihua Xu	36175999	J Nanobiotechnology	WB
Jing Sun	34650437	Front Pharmacol	WB,IF

## Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

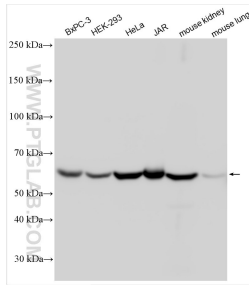
For technical support and original validation data for this product please contact:

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

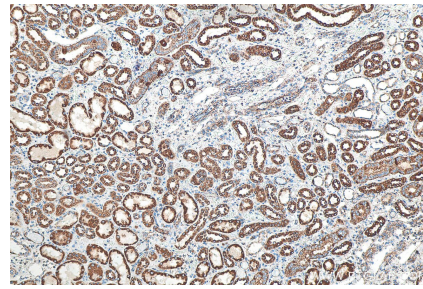
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

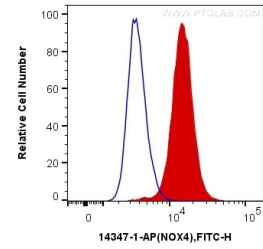
## Données de validation sélectionnées



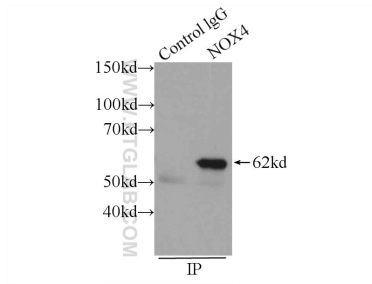
Various lysates were subjected to SDS PAGE followed by western blot with 14347-1-AP (NOX4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



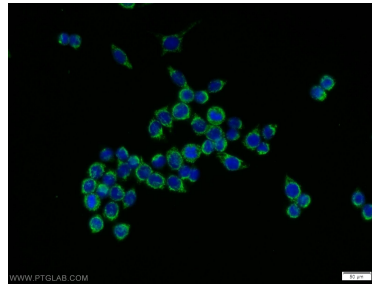
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14347-1-AP (NOX4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug Anti-Human NOX4 (14347-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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



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).