

À des fins de recherche uniquement

# Anticorps Monoclonal anti-NOX4

Numéro de catalogue: 67681-1-Ig **2 Publications**



## Informations de base

Numéro de catalogue: 67681-1-Ig	Numéro d'acquisition GenBank: BC040105	Méthode de purification: Purification par protéine A
Taille: 150ul , Concentration: 3520 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	Identification du gène (NCBI): 50507	CloneNo.: 4E5F1
Hôte: Mouse	Nom complet: NADPH oxidase 4	Dilutions recommandées: WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:200-1:800
Isotype: IgG1	MW calculé 67 kDa	
Immunogen Catalog Number: AG6176	MW observés: 67 kDa	

## Applications

### Applications testées:

IF, IHC, WB, ELISA

### Demandes citées:

WB

### Spécificité de l'espèce:

Humain, rat

### Espèces citées:

Humain, rat

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

### Contrôles positifs:

WB : cellules HEK-293, cellules HeLa, cellules HepG2, cellules HSC-T6, cellules Jurkat, cellules MG U-87

IHC : tissu rénal humain,

IF : cellules HUVEC,

## 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). Nox4 in cardiac myocytes is primarily expressed in mitochondria, and upregulation of Nox4 induced by hypertrophic stimuli elicits mitochondrial dysfunction and cardiac failure. In breast or ovarian tumor cells, mitochondrial Nox4 contributes to oncogenesis. In vascular endothelial cells, however, Nox4 is expressed in the endoplasmic reticulum (ER) and plays a specific role in redox-mediated ER signaling (PMID: 24259511).

## Publications notables

Autrice	Pubmed ID	Journal	Application
Mazhar Pasha	35883766	Antioxidants (Basel)	WB
Hui-Zhou Li	37626693	Biomedicines	WB

## Stockage

### Stockage:

Stocker à -20 °C.

### Tampon de stockage:

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

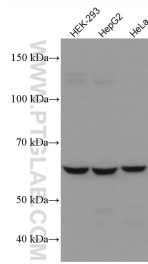
L'aliquotage n'est pas nécessaire pour le stockage à -20C

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

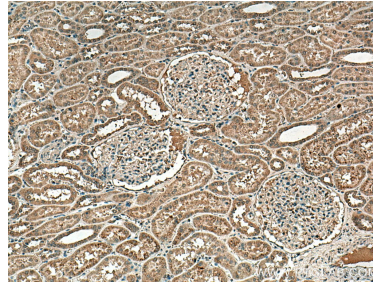
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

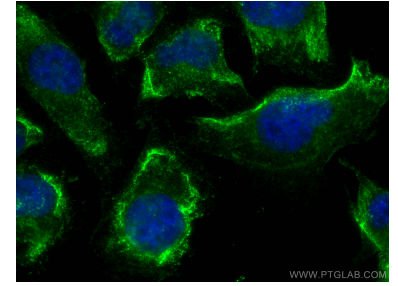
## Données de validation sélectionnées



Various lysates were subjected to SDS PAGE followed by western blot with 67681-1-Ig (NOX4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 67681-1-Ig (NOX4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using NOX4 antibody (67681-1-Ig, Clone: 4E5F1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).