

## NOX4 Polyclonal Antibody

Catalog number: 14347-1-AP

Size: 43 µg/150 µl

Source: Rabbit

Isotype: IgG

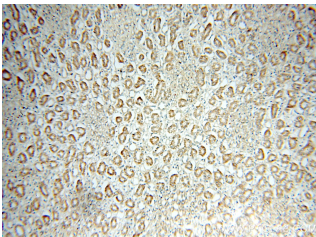
Synonyms:

NOX4; Kidney oxidase 1, KOX,

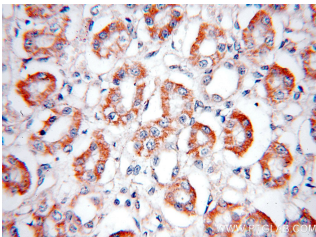
KOX 1, NADPH oxidase 4,

NOX4, Renal NAD(P)H oxidase,

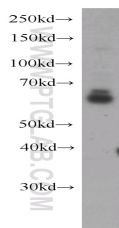
RENOX



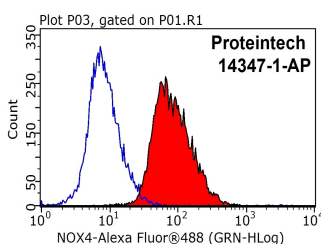
Immunohistochemical of paraffin-embedded human kidney using 14347-1-AP(NOX4 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human kidney using 14347-1-AP(NOX4 antibody) at dilution of 1:50 (under 40x lens)



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



1X10<sup>6</sup> HeLa cells were

### Background

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).

### Applications

<b>Tested applications:</b>	ELISA, WB, IHC, IP, FC
<b>Cited applications:</b>	WB
<b>Species specificity:</b>	Human, Mouse; other species not tested.
<b>Cited species:</b>	Human, rat
<b>Calculated NOX4 MW:</b>	67 kDa
<b>Observed NOX4 MW:</b>	62kd
<b>Positive WB detected in</b>	HeLa cells, BxPC-3 cells, HEK-293 cells
<b>Positive IP detected in</b>	HEK-293 cells
<b>Positive IHC detected in</b>	Human kidney tissue
<b>Positive FC detected in</b>	HeLa cells
<b>Recommended dilution:</b>	WB: 1:200-1:2000
	IP: 1:500-1:5000
	IHC: 1:20-1:200
	FC: N/A

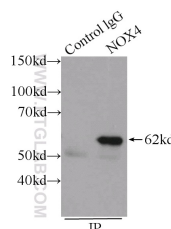
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

<b>Immunogen:</b>	Ag5687
<b>GenBank accession number:</b>	BC040105
<b>Gene ID (NCBI):</b>	50507
<b>Full name:</b>	NADPH oxidase 4

### Product information

<b>Purification method:</b>	Antigen affinity purification
<b>Storage:</b>	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



IP Result of anti-NOX4

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.

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