

For Research Use Only

# NOX1 Polyclonal antibody

Catalog Number: 17772-1-AP

Featured Product

59 Publications



## Basic Information

### Catalog Number:

17772-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12187

### GenBank Accession Number:

BC075014

### GeneID (NCBI):

27035

### UNIPROT ID:

Q9Y5S8

### Full Name:

NADPH oxidase 1

### Calculated MW:

564 aa, 65 kDa

### Observed MW:

59 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:5000

IHC 1:250-1:1000

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : mouse kidney tissue, rat kidney tissue

IHC : Human colon cancer tissue,

## Background Information

NOX1(NADPH oxidase 1) is also named as MOX1, NOH1 and belongs to the reactive oxygen species (ROS)-generating NADPH oxidase family. It plays a role in host defense, cell growth and differentiation, cell migration, and malignant transformation(PMID:20351171). It also can mediate oncogenic Ras-induced upregulation of VEGF and angiogenesis by activating Sp1 through Ras-ERK-dependent phosphorylation of Sp1(PMID:18454179). It has 3 isoforms produced by alternative splicing with the molecular weight of 65 kDa, 22 kDa and 59 kDa. The full length protein has two glycosylation sites. It always can be detected two bands of 63 kDa and 55 kDa in cells by western blot or another lower band of 45 kDa which is not likely due to alternative translation or splice variation, but as adjustment for the signal peptide and tag removal(PMID:17560373) or unspliced(PMID:17460729).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zi-Miao Liu	36222195	Bone Joint Res	WB
Tingting Ren	28938844	Antioxid Redox Signal	WB
Jianhua Li	35619150	Cell Biosci	WB

## 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

\*\*\* 20ul sizes contain 0.1% BSA

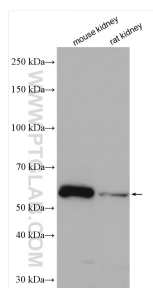
For technical support and original validation data for this product please contact:

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

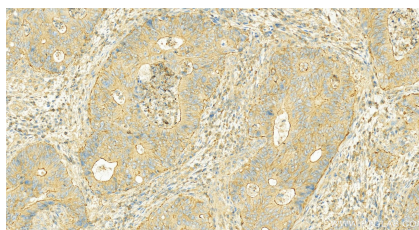
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17772-1-AP (NOX1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue slide using 17772-1-AP (NOX1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).