For Research Use Only

NOX4 Polyclonal antibody Catalog Number: 14347-1-AP Featured Product





Basic Information	Catalog Number: 14347-1-AP	GenBank Accession Num BC040105	per: Purification Method Antigen affinity pur	-	
	Size: 150ul, Concentration: 600 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG5687	GeneID (NCBI): 50507 UNIPROT ID: Q9NPH5 Full Name: NADPH oxidase 4 Calculated MW: 67 kDa Observed MW: 58-67 kDa	Recommended Dilu WB 1:1000-1:8000 IHC 1:50-1:500 IF/ICC 1:50-1:500	tions:	
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA Cited Applications:	w	Positive Controls: WB : BxPC-3 cells, HeLa cells, HEK-293 cells, mouse kidney tissue, JAR cells, mouse lung tissue		
	WB, IHC, IF, IP, CoIP		C : human kidney tissue,	-	
	Species Specificity: IF/ICC : A549 cells, human, mouse, rat IF/ICC : A549 cells,				
	Cited Species: human, mouse, rat, pig, zebrafish				
	Note-IHC: suggested antigen (TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen			
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 ha 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)				
Netekle Duklisstisus	Author Pub	mod ID Jaymond		Application	
		med ID Journal 75999 J Nanobiot	echnology	Application	
Notable Publications				WB	
Notable Publications		46605 Front Gene	t	WB	
NOTABLE PUBLICATIONS	Zhijing Song 3624	46605 Front Gene 50437 Front Pharr	·	WB WB WB,IF	
Notable Publications Storage *** 20ul sizes contain 0.1% BSA	Zhijing Song 3624	50437 Front Pharr ter shipment. 9% glycerol pH 7.3.	·	WB	

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

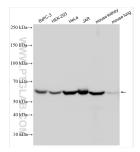
in USA), or 1(312) 455-8498 (outside USA)

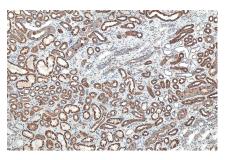
W: ptglab.com

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

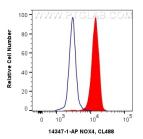
Selected Validation Data

temperature for 1.5 hours.

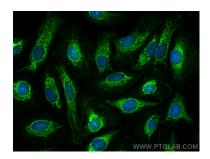




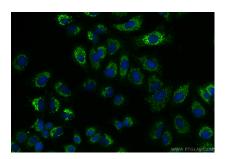
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14347-1-AP (NOX4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Various lysates were subjected to SDS PAGE followed by western blot with 14347-1-AP (NOX4 antibody) at dilution of 1:4000 incubated at room



1X10^{^6} HeLa cells were intracellularly stained with 0.4 ug Anti-Human NOX4 (14347-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit 1gG control Rabbit P0JyAb (30000-0-AP, Clone:) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NOX4 antibody (14347-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using NOX4 antibody (14347-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).