

Nur für Forschungszwecke

NOX4 Monoklonaler Antikörper

Katalog-Nr.: 67681-1-Ig **1 Publikationen**



Allgemeine Informationen

Katalog-Nr.: 67681-1-Ig	GenBank-Zugangsnummer: BC040105	Reinigungsmethode: Protein-A-Reinigung
Größe: 150ul, Konzentration: 3520 µg/ml von 50507 Nanodrop und 1000 µg/ml durch die Bradford-Methode mit BSA als Standard;	GeneID (NCBI): 50507	CloneNo.: 4E5F1
Wirt: Maus	Vollständiger Name: NADPH oxidase 4	Empfohlene Verdünnungen: WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:200-1:800
Isotyp: IgG1	Berechnete Masse: 67 kDa	
Immunogen Katalognummer: AG6176	Beobachtete Masse: 67 kDa	

Anwendungen

Geprüfte Anwendungen: IF, IHC, WB, ELISA	Positivkontrollen: WB: HEK-293-Zellen, HeLa-Zellen, HepG2-Zellen, Jurkat-Zellen, U-87 MG-Zellen
In Publikationen genannte Anwendungen: WB	IHC: humanes Nierengewebe,
Getestete Reaktivität: Human, Ratte	IF: HUVEC-Zellen,
Zitierte Arten: Ratte	
Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.	

Hintergrundinformationen

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).

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Mazhar Pasha	35883766	Antioxidants (Basel)	WB

Lagerung

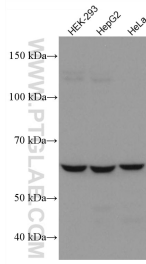
Lagerungsbedingungen:
Bei -20°C lagern.
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C Lagerung

***** 20ul-Größen enthalten 0.1% BSA**

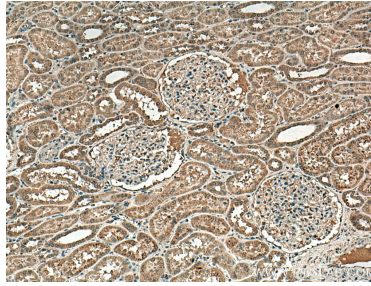
For technical support and original validation data for this product please contact:
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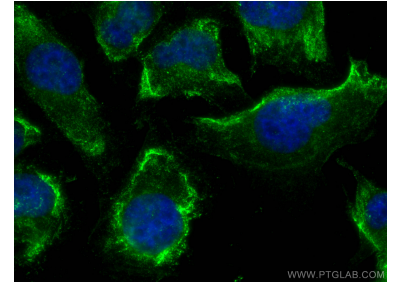
Ausgewählte Validierungsdaten



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).