À des fins de recherche uniquement

Anticorps Monoclonal anti-NOX4

Numéro de catalogue:CL555-67681

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Informations de base

Numéro de catalogue:
CL555-67681

Taille:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Hôte:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG6176

Numéro d'acquisition GenBank:
BC040105

Identification du gène (NCBI):
50507

Nom complet:
NADPH oxidase 4

MW calculé
67 kDa

MW observés:
67 kDa

Méthode de purification:
Purification par protéine G

CloneNo.:
4E5F1

Excitation/Emission maxima wavelengths:
557 nm / 570 nm

Applications

Applications testées:
FC (Intra)

Spécificité de l'espèce:
Humain, rat

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).

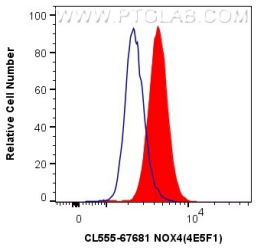
Stockage

Stockage:
Stocker à -20 °C. Éviter toute exposition à la lumière. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec glycérol à 50 %, Proclin300 à 0,05 % et BSA à 0,5 %, 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

Données de validation sélectionnées



1X10^6 HeLa cells were intracellularly stained with 0.4 ug CoraLite®555 Anti-Human NOX4 (CL555-67681, Clone:4E5F1) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).