

# NOX4 Recombinant Rabbit Monoclonal Antibody (SY0214)

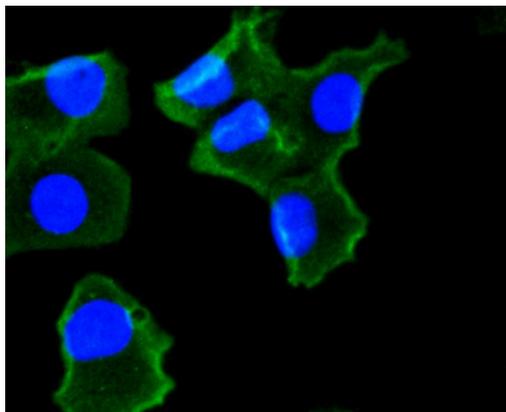
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	SY0214
Conjugate	Unconjugated
Immunogen	Recombinant protein within Human NOX4 aa 460-578
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	TBS, pH 7.4, with 40% Glycerol, 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2809383

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	5 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:200	-
Immunocytochemistry (ICC/IF)	1:50-1:100	-
Functional Assay (FN)	-	1 Publication

## Product Specific Information

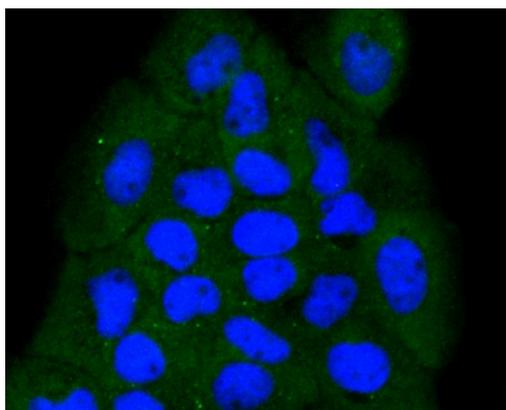
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

## Product Images For NOX4 Recombinant Rabbit Monoclonal Antibody (SY0214)



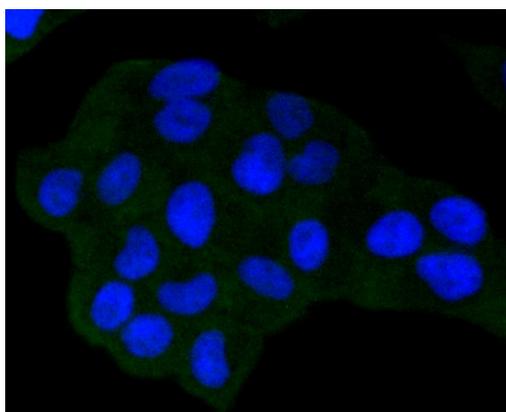
### **NOX4 Antibody (MA5-32090) in ICC/IF**

Immunocytochemical analysis of NOX4 in A549 cells using a NOX4 Monoclonal antibody (Product # MA5-32090) as seen in green. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



### **NOX4 Antibody (MA5-32090) in ICC/IF**

Immunocytochemical analysis of NOX4 in A431 cells using a NOX4 Monoclonal antibody (Product # MA5-32090) as seen in green. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



### **NOX4 Antibody (MA5-32090) in ICC/IF**

Immunocytochemical analysis of NOX4 in Hela cells using a NOX4 Monoclonal antibody (Product # MA5-32090) as seen in green. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## Western Blot (5)

Cells

**Simulated Microgravity Exposure Induces Antioxidant Barrier Deregulation and Mitochondria Enlargement in TCam-2 Cell Spheroids.**

"Published figure using NOX4 recombinant monoclonal antibody (Product # MA5-32090) in Western Blot"

Authors: Berardini M, Gesualdi L, Morabito C, Ferranti F, Reale A, Zampieri M, Karpach K, Tinari A, Bertuccini L, Guarnieri S, Catizone A, Mariggiò MA, Ricci G

Year  
2023Species  
HumanDilution  
1:1,000

Frontiers in cardiovascular medicine

**Oxidative stress and inflammation distinctly drive molecular mechanisms of diastolic dysfunction and remodeling in female and male heart failure with preserved ejection fraction rats.**

"MA5-32090 was used in Western Blotting to suggest that oxidative stress and inflammation distinctly drive diastolic dysfunction and remodeling in female and male rats with HFpEF and that the sex-dependent mechanisms contribute to HF pathology."

Authors: Zhazykbayeva S, Hassoun R, Herwig M, Budde H, Kovács Á, Mannherz HG, El-Batrawy I, Tóth A, Schmidt WE, Mügge A, Hamdani N

Year  
2023Species  
RatDilution  
1:1,000[View more WB references on thermofisher.com](#)

## Immunohistochemistry (1)

International journal of molecular sciences

**NOX1 Inhibition Attenuates Kidney Ischemia-Reperfusion Injury via Inhibition of ROS-Mediated ERK Signaling.**

"MA5-32090 was used in Immunohistochemistry to identify the effect of NOX1 inhibition on the recovery from IRI through ROS suppression and related mechanisms."

Authors: Jung HY, Oh SH, Ahn JS, Oh EJ, Kim YJ, Kim CD, Park SH, Kim YL, Cho JH

Year  
2020Species  
MouseDilution  
1:100

## Functional Assay (1)

iScience

**IL11 stimulates ERK/P90RSK to inhibit LKB1/AMPK and activate mTOR initiating a mesenchymal program in stromal, epithelial, and cancer cells.**

"MA5-32090 was used in Functional Assay to identify the IL11/mTOR axis as a signaling commonality in stromal, epithelial, and cancer cells and reveal a shared IL11-driven mesenchymal program across cell types."

Authors: Widjaja AA, Viswanathan S, Wei Ting JG, Tan J, Shekeran SG, Carling D, Lim WW, Cook SA

Year  
2022Species  
Mouse

## More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.