

NOX4 Recombinant Rabbit Monoclonal Antibody (SY0214)

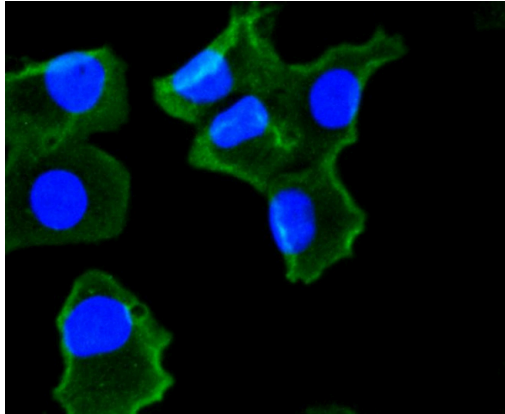
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	SY0214
Conjugate	Unconjugated
Immunogen	Recombinant protein within Human NOX4 aa 460-578
Form	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

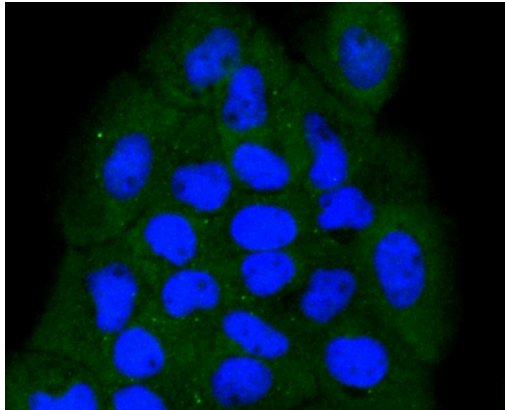
Product Specific Information

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.

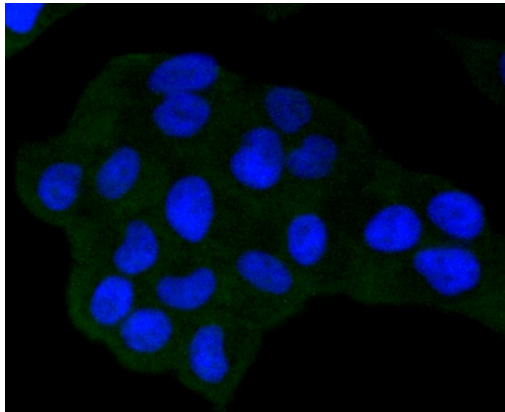
Product Images For NOX4 Recombinant Rabbit Monoclonal Antibody (SY0214)



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.

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Western Blot (5)

<p>Cells</p> <p>Simulated Microgravity Exposure Induces Antioxidant Barrier Deregulation and Mitochondria Enlargement in TCam-2 Cell Spheroids.</p> <p>"Published figure using NOX4 recombinant monoclonal antibody (Product # MA5-32090) in Western Blot"</p> <p>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</p>	<p>Year 2023</p> <p>Species Human</p> <p>Dilution 1:1,000</p>
<p>Frontiers in cardiovascular medicine</p> <p>Oxidative stress and inflammation distinctly drive molecular mechanisms of diastolic dysfunction and remodeling in female and male heart failure with preserved ejection fraction rats.</p> <p>"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."</p> <p>Authors: Zhazykbayeva S,Hassoun R,Herwig M,Budde H,Kovács Á,Mannherz HG,El-Battrawy I,Tóth A,Schmidt WE,Mügge A,Hamdani N</p>	<p>Year 2023</p> <p>Species Rat</p> <p>Dilution 1:1,000</p>

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Immunohistochemistry (1)

<p>International journal of molecular sciences</p> <p>NOX1 Inhibition Attenuates Kidney Ischemia-Reperfusion Injury via Inhibition of ROS-Mediated ERK Signaling.</p> <p>"MA5-32090 was used in Immunohistochemistry to identify the effect of NOX1 inhibition on the recovery from IRI through ROS suppression and related mechanisms."</p> <p>Authors: Jung HY,Oh SH,Ahn JS,Oh EJ,Kim YJ,Kim CD,Park SH,Kim YL,Cho JH</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
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Functional Assay (1)

<p>iScience</p> <p>IL11 stimulates ERK/P90RSK to inhibit LKB1/AMPK and activate mTOR initiating a mesenchymal program in stromal, epithelial, and cancer cells.</p> <p>"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."</p> <p>Authors: Widjaja AA,Viswanathan S,Wei Ting JG,Tan J,Shekeran SG,Carling D,Lim WW,Cook SA</p>	<p>Year 2022</p> <p>Species Mouse</p>
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