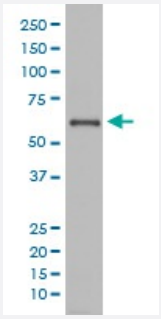
NOX4 monoclonal antibody, clone E-14

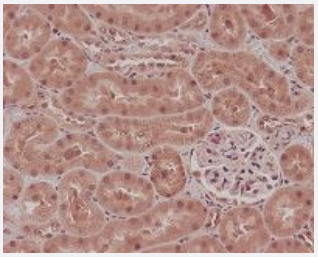
Catalog # MAB19486 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of JAR cell lysate with NOX4 monoclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded rat kidney with NOX4 monoclonal antibody.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human NOX4.
Immunogen	A synthetic peptide corresponding to human NOX4.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG

Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:50) Western Blot (1:1000-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of JAR cell lysate with NOX4 monoclonal antibody.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of paraffin-embedded rat kidney with NOX4 monoclonal antibody.

- Immunocytochemistry

- Immunofluorescence

- Immunoprecipitation

Gene Info — NOX4

Entrez GeneID	50507
Protein Accession#	Q9NPH5
Gene Name	NOX4
Gene Alias	KOX, KOX-1, RENOX
Gene Description	NADPH oxidase 4
Omim ID	605261
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it a cts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various reactive oxyg en species (ROS). The ROS generated by this protein have been implicated in numerous biologic al functions including signal transduction, cell differentiation and tumor cell growth. A pseudogene has been identified on the other arm of chromosome 11. Alternative splicing results in multiple tra nscript variants
Other Designations	kidney superoxide-producing NADPH oxidase|renal NAD(P)H-oxidase

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Diabetic Nephropathies
- Edema
- Genetic Predisposition to Disease
- HIV Infections
- Liver Cirrhosis
- Tobacco Use Disorder