

NOX4 monoclonal antibody, clone NOX4/1245

Catalog # MAB14858

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant human NOX4.
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Immunogen	Recombinant protein corresponding to full length human NOX4.
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Host	Mouse
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Theoretical MW (kDa)	70
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Reactivity	Human
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Form	Liquid
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Purification	Protein A/G purification
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Isotype	IgG2b, kappa
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Recommend Usage	ELISA Flow Cytometry (0.5-1 ug/10 ⁶ cells) Immunofluorescence (0.5-1 ug/mL) Western Blotting (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
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Storage Buffer	In 10 mM PBS.
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Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.
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Applications

- Western Blot
- Immunofluorescence
- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

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 acts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various reactive oxygen species (ROS). The ROS generated by this protein have been implicated in numerous biological 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 transcript variants

Other Designations kidney superoxide-producing NADPH oxidase|renal NAD(P)H-oxidase

Publication Reference

- [A novel superoxide-producing NAD\(P\)H oxidase in kidney.](#)

Shiose A, Kuroda J, Tsuruya K, Hirai M, Hirakata H, Naito S, Hattori M, Sakaki Y, Sumimoto H.

The Journal of Biological Chemistry 2001 Jan; 276(2):1417.

Application: IHC-P, WB-Ce, WB-Re, WB-Tr, Human, Monkey, Mouse, COS-7 cells, HEK 293 cells, Human renal cortex, KPK13 cells, Neutrophils, NIH/3T3 cells

- [Identification of renox, an NAD\(P\)H oxidase in kidney.](#)

Geiszt M, Kopp JB, Várnai P, Leto TL.

PNAS 2000 Jul; 97(14):8010.

Application: IHC, WB-Ti, Human, Human kidney

Disease

- [Cardiovascular Diseases](#)
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