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Mouse Monoclonal Antibody NADPH oxidase 4 conjugated to Sepharose Beads

CatalogNo: ANT8112-S

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to Nhydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

NADPH oxidase 4 (ANT0081R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN3a3 preservative.

Host Species <ul> <li>Rabbit</li> </ul>	• Human,Mouse,Rat,	<ul><li>Reactivity</li><li>WB,IF,IP,ELISA</li></ul>	Applications
MW • 67kD (Calcu 67kD (Observ	ulated) • IgG,Kappa ved)	Isotype	

#### Recommended Dilution Ratios

# Basic Information

Clone Number ANT0081R

#### Immunogen Information

Specificity Endogenous

### Target Information

Gene name Protein Name NOX4 RENOX

NADPH oxidase 4 (Kidney oxidase-1) (KOX-1) (Kidney superoxide-producing NADPH oxidase) (Renal NAD(P)H-oxidase)

	Organism	Gene ID	UniProt ID	
	Human	<u>50507</u> ;	<u>Q9NPH5;</u>	
	Mouse		<u>Q9JHI8</u> ;	
	Rat		<u>Q924V1</u> ;	
Cellular	Cytoplasm			

#### Localization

**Tissue specificity** Expressed by distal tubular cells in kidney cortex and in endothelial cells (at protein level).

Widely expressed. Strongly expressed in kidney and to a lower extent in heart, adipocytes, hepatoma, endothelial cells, skeletal muscle, brain, several brain tumor cell lines and airway epithelial cells. **Function** developmental stage:Expressed in fetal kidney and fetal liver.,enzyme regulation:Inhibited by plumbagin (By similarity). Activated by phorbol 12-myristate 13-acetate (PMA). Activated by insulin. Inhibited by diphenylene iodonium., Function: Constitutive NADPH oxidase which generates superoxide intracellularly upon formation of a complex with CYBA/p22phox. Regulates signaling cascades probably through phosphatases inhibition. May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel and HIF1A activity. May regulate insulin signaling cascade. May play a role in apoptosis, bone resorption and lipolysaccharide-mediated activation of NFKB. Isoform 3 is not functional. Isoform 4 displays an increased activity while isoform 5 and isoform 6 display reduced activity. May produce superoxide in the nucleus and play a role in regulating gene expression upon cell stimulation., induction: By 7-ketocholesterol (at protein level).,ANTM:Isoform 3 and isoform 4 are N-glycosylated. Isoform 4 glycosylation is required for its proper function., similarity: Contains 1 FAD-binding FR-type domain., similarity: Contains 1 ferric oxidoreductase domain., subcellular location:May localize to plasma membrane and focal adhesions. May also localize to the nucleus (PubMed:15927447)., subunit: Interacts with protein disulfide isomerase (By similarity). Interacts with, relocalizes and stabilizes CYBA/p22phox. Interacts with TLR4.,tissue specificity:Expressed by distal tubular cells in kidney cortex and in endothelial cells (at protein level). Widely expressed. Strongly expressed in kidney and to a lower extent in heart, adipocytes, hepatoma, endothelial cells, skeletal muscle, brain, several brain tumor cell lines and airway epithelial cells.,

## Validation Data

Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-NADPH (ANT0081R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 2: U-87MG Predicted band size: 67kDa Observed band size: 67kDa



Please scan the QR code to access additional product information: NADPH oxidase 4 (ANT0081R) Rabbit mAb

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