NOX4 Rabbit pAb

CatalogNo: YN2975

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 63kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from part region of human protein AA range:520-578
Specificity	NOX4 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	NOX4 RENOX

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

Organism	Gene ID	UniProt ID
Human	50507;	Q9NPH5;
Mouse		Q9JHI8;
Rat		Q924V1;

Cellular Localization Endoplasmic reticulum membrane ; Multi-pass membrane protein. Cell membrane ; Multi-pass membrane protein . Cell junction, focal adhesion . May localize to plasma membrane and focal adhesions. According to PubMed:15927447, may also localize to the nucleus.; [Isoform 4]: Nucleus . Nucleus, nucleolus .

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).,PTM: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

Contact information

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Please scan the QR code to access additional product information:
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