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Anti-NADPH oxidase 4 Rabbit mAb [43E85]

Catalog No.: A52243

Basic Information

Catalog No. (Cat.No.)	A52243
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Synonyms	NADPH oxidase 4,NOX4,CYORC,RNOX4

Product Information

Target	NADPH oxidase 4
Molecular Weight(Calculated)	67 kDa
Molecular Weight(Observed)	67 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	43E85
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	NADPH oxidase-4
Gene Name	*NOX4*
Domain	NA
Background	NOX4 (NADPH oxidase 4) belongs to NADPH oxidase family and catalyzes NADPH-dependent reactive oxygen species production. Predominantly localized at endoplasmic reticulum and mitochondria-associated membranes, NOX4 differs from other NOX isoforms by exhibiting constitutive enzymatic activity independent of cytosolic subunits, continuously generating H_2O_2. It contributes to signal transduction, apoptosis, fibrosis and vascular remodeling. Physiological ROS acts as second messenger; NOX4 up-regulation induces oxidative stress and promotes renal/pulmonary fibrosis, cardiovascular injury and tumor progression. NOX4 preferentially produces hydrogen peroxide rather than superoxide anion. Its expression is strongly induced by TGF-β and serves as key effector during fibrogenesis.