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NOXA1 Rabbit pAb

Catalog # AP96863

Product Information

Application	WB
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse NOXA1
Epitope Specificity	301-400/444
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SIMILARITY	Belongs to the NCF2/NOXA1 family. Contains 1 OPR domain. Contains 1 SH3 domain. Contains 4 TPR repeats.
SUBUNIT	NOX1, NOXA1, NOXO1, RAC1 and CYBA forms a functional multimeric complex supporting ROS production. Interaction with YWHAZ prevents the interaction of NOXA1 with NOXO1 and RAC1 and its targeting to membranes, hence reducing its ability to activate NOX1. Interacts (via N-terminus) with SH3PXD2A and SH3PXD2B; the interaction is direct.
Post-translational modifications	Interaction with YWHAZ depends on phosphorylation by PKA.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein which activates NADPH oxidases, enzymes which catalyze a reaction generating reactive oxygen species. The encoded protein contains four N-terminal tetratricopeptide domains and a C-terminal Src homology 3 domain. Interaction between the encoded protein and proteins in the oxidase regulatory complex occur via the tetratricopeptide domains. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Additional Information

Other Names	NY-CO-31; SDCCAG31; p51NOX; NOXA1_HUMAN; NOXA1; NOX activator 1; Antigen NY-CO-31; NCF2-like protein; P67phox-like factor; p51-nox; NADPH oxidase activator 1; serologically defined colon cancer antigen 31
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Name	NOXA1 Rabbit pAb
Function	Functions as an activator of NOX1, a superoxide-producing NADPH oxidase. Functions in the production of reactive oxygen species (ROS) which participate in a variety of biological processes including host defense, hormone biosynthesis, oxygen sensing and signal transduction. May also activate CYBB/gp91phox and NOX3.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.