



Rabbit Anti-NOXA1 antibody

SL20831R

Product Name:	NOXA1
Chinese Name:	NADPH氧化酶激活蛋白1抗体
Alias:	Antigen NY CO 31; Antigen NY-CO-31; FLJ25475; Inhibitory NADPH oxidase activator 1; MGC131800; NADPH oxidase activator 1; NCF2 like protein; NCF2-like protein; NOX activator 1; NOXA 1; Noxa1; NOXA1_HUMAN; NY CO 31; p51 nox; p51-nox; p51NOX; P67phox like factor; P67phox-like factor; SDCCAG31; Serologically defined colon cancer antigen 31.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	51kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse NOXA1:301-400/444
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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]

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.

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.

Subcellular Location:

Cytoplasm. Cell membrane. Translocation to membranes depends on NOXO1 or NCF1 and maybe RAC1.

Tissue Specificity:

Widely expressed. Detected in pancreas, liver, kidney, spleen, prostate, small intestine and colon. Post-translational modifications : Interaction with YWHAZ depends on phosphorylation by PKA.

Similarity:

Belongs to the NCF2/NOXA1 family.
Contains 1 OPR domain.
Contains 1 SH3 domain.
Contains 4 TPR repeats.

SWISS:

Q86UR1

Gene ID:

241275

Database links:

[Entrez Gene: 10811](#) Human

[Entrez Gene: 241275](#) Mouse

[Omim: 611255](#) Human

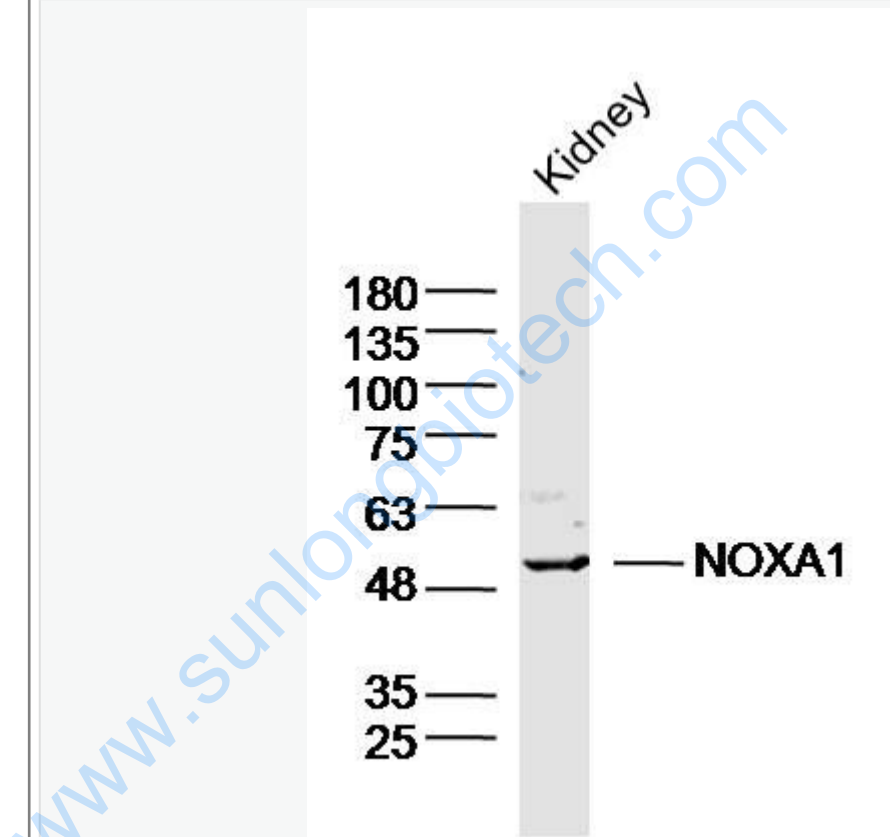
[SwissProt: Q86UR1](#) Human

[Unigene: 495554](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample: Kidney (Mouse) Lysate at 40 ug

Primary: Anti-NOXA1(SL20831R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51kD

Observed band size: 51kD