



## Rabbit Anti-NOXO1 antibody

SL19323R

<b>Product Name:</b>	NOXO1
<b>Chinese Name:</b>	NADPH氧化酶调节蛋白1抗体
<b>Alias:</b>	NADPH oxidase organizer 1; NADPH oxidase regulatory protein; Nox organizer 1; Nox organizing protein 1; Nox-organizing protein 1; NOXO1; NOXO1_HUMAN; P41NOX; Regulatory protein P41NOX; SH3 and PX domain-containing protein 5; SH3PXD5.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,
<b>Applications:</b>	ELISA=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.
<b>Molecular weight:</b>	41kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human NOXO1:1-100/376
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene encodes an NADPH oxidase (NOX) organizer, which positively regulates NOX1 and NOX3. The protein contains a PX domain and two SH3 domains. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jun 2012]

**Function:**

Constitutively potentiates the superoxide-generating activity of NOX1 and NOX3 and is required for the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity. Isoform 3 is more potent than isoform 1 in activating NOX3. Together with NOXA1, may also substitute to NCF1/p47phox and NCF2/p67phox in supporting the phagocyte NOX2/gp91phox superoxide-generating activity.

**Subcellular Location:**

Cell membrane. Isoform 3 associates with the plasma membrane in a lipid-dependent manner. Target information above from: UniProt accession Q8NFA2 The UniProt Consortium The Universal Protein Resource (UniProt) in 2010 Nucleic Acids Res. 38:D142-D148 (2010) .

**Tissue Specificity:**

Expressed in testis, small and large intestines, liver, kidney and pancreas. Isoform 3 is mainly expressed in colon. Isoform 1 is preferentially expressed in testis.

**Similarity:**

Contains 1 PX (phox homology) domain.  
Contains 2 SH3 domains.

**SWISS:**

Q8NFA2

**Gene ID:**

124056

**Database links:**

[Entrez Gene: 124056](#) Human

[Entrez Gene: 71893](#) Mouse

[Entrez Gene: 302976](#) Rat

[Omim: 611256](#) Human

[SwissProt: Q8NFA2](#) Human

[SwissProt: Q8VCM2](#) Mouse

[Unigene: 191762](#) Human

[Unigene: 390971](#) Mouse

[Unigene: 137764](#) Rat

**Important Note:**

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