

NOXO1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17494c**Specification**

NOXO1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q8NFA2
Other Accession	NP_653204.1 , NP_751907.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41253
Antigen Region	192-219

NOXO1 Antibody (Center) - Additional Information**Gene ID** 124056**Other Names**

NADPH oxidase organizer 1, NADPH oxidase regulatory protein, Nox organizer 1, Nox-organizing protein 1, SH3 and PX domain-containing protein 5, NOXO1, P41NOX, SH3PXD5

Target/Specificity

This NOXO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 192-219 amino acids from the Central region of human NOXO1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NOXO1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NOXO1 Antibody (Center) - Protein Information**Name** NOXO1

Synonyms P41NOX, SH3PXD5

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.

Cellular Location

[Isoform 3]: Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Isoform 3 associates with the plasma membrane in a lipid-dependent manner (PubMed:12716910)

Tissue Location

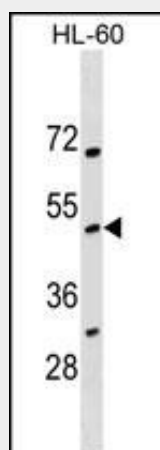
Expressed in testis, small and large intestines, liver, kidney and pancreas. Isoform 3 is mainly expressed in colon Isoform 1 is preferentially expressed in testis

NOXO1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NOXO1 Antibody (Center) - Images



NOXO1 Antibody (Center) (Cat. #AP17494c) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the NOXO1 antibody detected the NOXO1 protein (arrow).

NOXO1 Antibody (Center) - Background

NADPH oxidases (NOXs) catalyze the transfer of electrons from NADPH to molecular oxygen to generate reactive oxygen species (ROS). NOX organizers, such as NOXO1, target NOX activators (see NOXA1; MIM 611255) to NOX and also target NOX to different

subcellular compartments (Opitz et al., 2007 [PubMed 17189823]).

NOXO1 Antibody (Center) - References

Dutta, S., et al. PLoS ONE 5 (5), E10478 (2010) :
Opitz, N., et al. Free Radic. Biol. Med. 42(2):175-179(2007)
Yamamoto, A., et al. Biochem. Biophys. Res. Commun. 352(2):560-565(2007)
Takeya, R., et al. FEBS J. 273(16):3663-3677(2006)
Cheng, G., et al. J. Biol. Chem. 281(26):17718-17726(2006)