

NOXO1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17494c**Specification**

NOXO1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q8NFA2](#)**NOXO1 Antibody (Center) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NOXO1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NOXO1 Antibody (Center) Blocking Peptide - Images

NOXO1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)