

NCF4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7615b**Specification**

NCF4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q15080](#)**NCF4 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 4689**Other Names**

Neutrophil cytosol factor 4, NCF-4, Neutrophil NADPH oxidase factor 4, SH3 and PX domain-containing protein 4, p40-phox, p40phox, NCF4, SH3PXD4

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7615b](/products/AP7615b) was selected from the C-term region of human NCF4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

NCF4 Antibody (C-term) Blocking Peptide - Protein Information**Name** NCF4**Synonyms** SH3PXD4**Function**

Component of the NADPH-oxidase, a multicomponent enzyme system responsible for the oxidative burst in which electrons are transported from NADPH to molecular oxygen, generating reactive oxidant intermediates. It may be important for the assembly and/or activation of the NADPH-oxidase complex.

Cellular Location

Cytoplasm, cytosol. Endosome membrane; Peripheral membrane protein; Cytoplasmic side. Membrane; Peripheral membrane protein

Tissue Location

Expression is restricted to hematopoietic cells.

NCF4 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NCF4 Antibody (C-term) Blocking Peptide - Images**NCF4 Antibody (C-term) Blocking Peptide - Background**

NCF4 is a cytosolic regulatory component of the superoxide-producing phagocyte NADPH-oxidase, a multicomponent enzyme system important for host defense. This protein is preferentially expressed in cells of myeloid lineage. It interacts primarily with neutrophil cytosolic factor 2 (NCF2/p67-phox) to form a complex with neutrophil cytosolic factor 1 (NCF1/p47-phox), which further interacts with the small G protein RAC1 and translocates to the membrane upon cell stimulation. This complex then activates flavocytochrome b, the membrane-integrated catalytic core of the enzyme system. The PX domain of this protein can bind phospholipid products of the PI(3) kinase, which suggests its role in PI(3) kinase-mediated signaling events. The phosphorylation of this protein was found to negatively regulate the enzyme activity.

NCF4 Antibody (C-term) Blocking Peptide - References

Glas,J., Seiderer,J. Am. J. Gastroenterol. 104 (3), 665-672 (2009) Honbou,K. Seikagaku 80 (8), 743-747 (2008) Dusi,S., Donini,M. Biochem. J. 314 (PT 2), 409-412 (1996) Leto,T.L. Proc. Natl. Acad. Sci. U.S.A. 91 (22), 10650-10654 (1994)