

NCF4 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7615b

Specification

NCF4 Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	O15080
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	39032
Antigen Region	260-289

NCF4 Antibody (C-term) - 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

This NCF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 260-289 amino acids from the C-terminal region of human NCF4.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

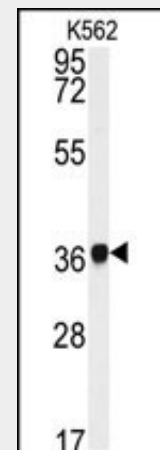
Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

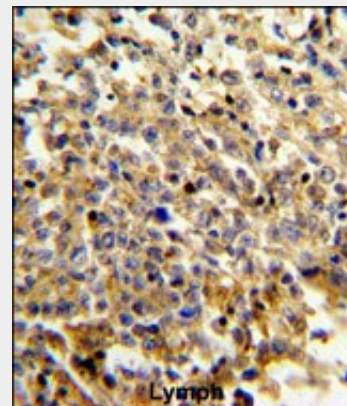
Storage

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



Western blot analysis of NCF4 antibody (C-term)(Cat.#AP7615b) in K562 cell line lysates (35ug/lane). NCF4 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lymphoma reacted with NCF4 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

NCF4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NCF4 Antibody (C-term) - 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

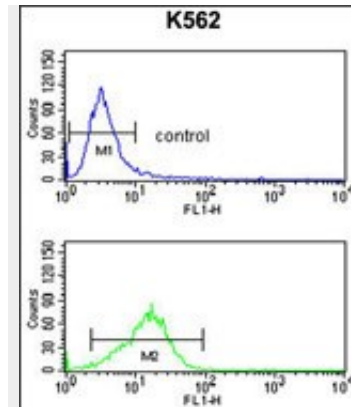
Tissue Location

Expression is restricted to hematopoietic cells.

NCF4 Antibody (C-term) - 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](#)



NCF4 Antibody (C-term) (Cat. #AP7615b) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

NCF4 Antibody (C-term) - 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) - 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)