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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	Q15080
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
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
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

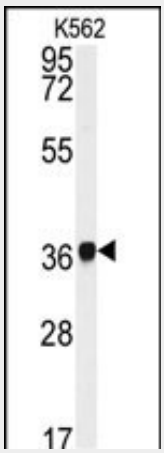
Tissue Location
Expression is restricted to hematopoietic cells.

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 Cytomety
- Cell Culture

NCF4 Antibody (C-term) - Images



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.

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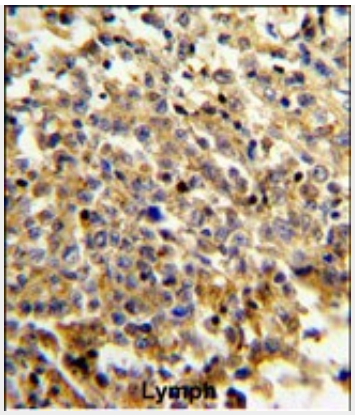
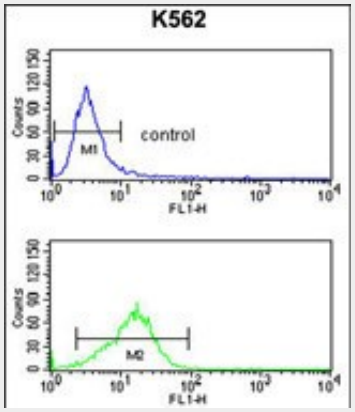


Formalin-fixed and paraffin-embedded human lymphoma reacted with NCF4 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



NCF4 Antibody (C-term) (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)