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NCF1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5882a

Specification

NCF1 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P14598
Other Accession	O77774, A8MVU1, A6NI72, NP_000256.3
Reactivity	**Human**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**44682**
Antigen Region	**26-52**

NCF1 Antibody (N-term) - Additional Information

Gene ID 653361

Other Names
Neutrophil cytosol factor 1, NCF-1, 47 kDa autosomal chronic granulomatous disease protein, 47 kDa neutrophil oxidase factor, NCF-47K, Neutrophil NADPH oxidase factor 1, Nox organizer 2, Nox-organizing protein 2, SH3 and PX domain-containing protein 1A, p47-phox, NCF1, NOXO2, SH3PXD1A

Target/Specificity
This NCF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-52 amino acids from the N-terminal region of human NCF1.

Dilution
WB~~1:1000
IHC-P~~1:50~100
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
NCF1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NCF1 Antibody (N-term) - Protein Information

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Name NCF1 (HGNC:7660)

Synonyms NOXO2, SH3PXD1A

Function Subunit of the phagocyte NADPH oxidase complex that mediates the transfer of electrons from cytosolic NADPH to O2 to produce the superoxide anion (O2(-)) (PubMed:2547247, PubMed:2550933, PubMed:38355798). In the activated complex, electrons are first transferred from NADPH to flavin adenine dinucleotide (FAD) and subsequently transferred via two heme molecules to molecular oxygen, producing superoxide through an outer-sphere reaction (PubMed:38355798). Activation of the NADPH oxidase complex is initiated by the assembly of cytosolic subunits of the NADPH oxidase complex with the core NADPH oxidase complex to form a complex at the plasma membrane or phagosomal membrane (PubMed:38355798). This activation process is initiated by phosphorylation dependent binding of the cytosolic NCF1/p47-phox subunit to the C-terminus of CYBA/p22-phox (PubMed:12732142, PubMed:19801500).

Cellular Location
Cytoplasm, cytosol. Membrane; Peripheral membrane protein; Cytoplasmic side

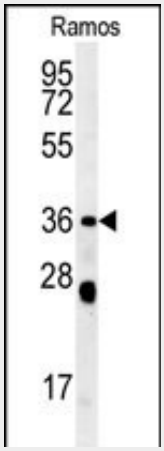
Tissue Location
Detected in peripheral blood monocytes and neutrophils (at protein level).

NCF1 Antibody (N-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

NCF1 Antibody (N-term) - Images



NCF1 Antibody (N-term) (Cat. #AP5882a) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the NCF1 antibody detected the NCF1 protein (arrow).

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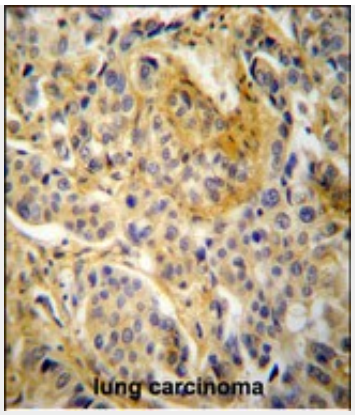

NCF1 Antibody (N-term) (Cat. #AP5882a) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the NCF1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.