10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

NCF1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11854

Specification

NCF1 Antibody - Product Information

Application	**IHC, IF, WB**
Primary Accession	P14598
Reactivity	**Human, Mouse, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**44682**

NCF1 Antibody - Additional Information

Gene ID 653361

Positive Control	**WB: Jurkat, THP1 cell lysate; IHC: human tonsil tissue; IFC: Jurkat cells**
Application & Usage	**WB; 1:500 – 1:2000, IHC; 1:50 – 1:200, IF/IC; 1:50 – 1:100**
Alias Symbol	**NCF1**

Other Names
NOXO2, SH3PXD1A, 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, Neutrophil cytosol factor 1

Appearance
Colorless liquid

Formulation
In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
NCF1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

NCF1 Antibody - Protein Information

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 - 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 - Images

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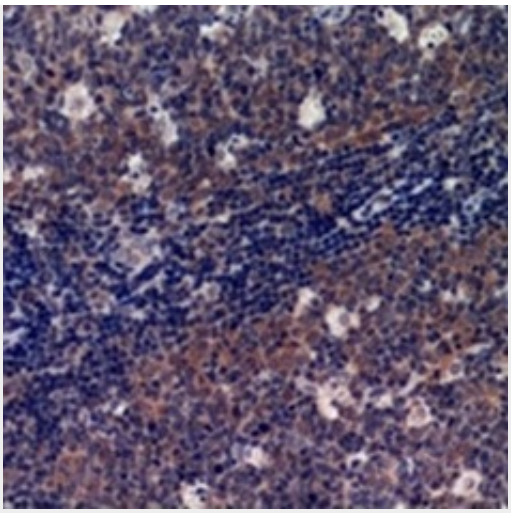
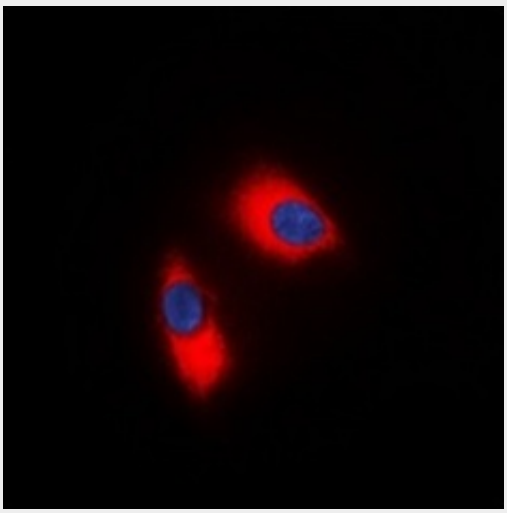
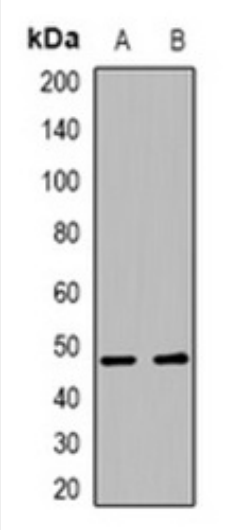


Immunohistochemical analysis of NCF1 staining in human tonsil formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of NCF1 staining in Jurkat cells.



Western blot analysis of NCF1 expression in Jurkat(A); THP-1(B) whole cell lysates.

NCF1 Antibody - Background

NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production)