

Rabbit NCF1 Polyclonal Antibody | anti-NCF1 antibody

NCF1 Antibody

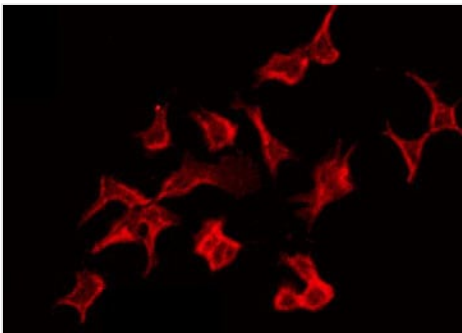
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326061	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

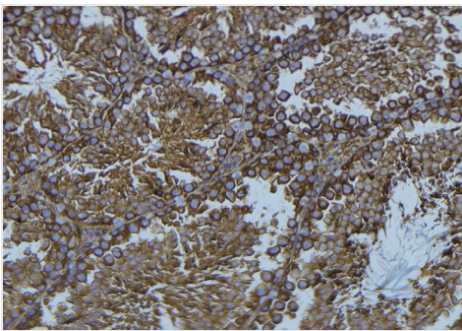
NCF1; Polyclonal Antibody; NCF1 Antibody; 47 kDa autosomal chronic granulomatous disease protein; 47 kDa neutrophil oxidase factor; NADPH oxidase organizer 2; NCF 47K; NCF-1; NCF-47K; Ncf1; NCF1_HUMAN; Neutrophil cytosol factor 1; Neutrophil cytosolic factor 1; neutrophil cytosolic factor 1; (chronic granulomatous disease; autosomal 1); Neutrophil NADPH oxidase factor 1; Nox organizer 2; Nox organizing protein 2; Nox-organizing protein 2; NOXO2; p47 phox; p47-phox; SH3 and PX domain containing protein 1A; SH3 and PX domain-containing protein 1A; SH3PXD1A; anti-NCF1 antibody

PRODUCT SPECIFICATIONS

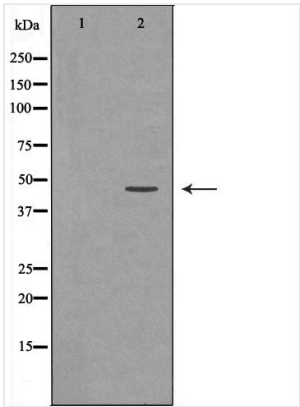
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	NCF1 antibody detects endogenous levels of total NCF1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	390
Applicable Applications for anti-NCF1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NCF1
Subcellular Location	Cytoplasm.
Tissue Specificity	Detected in peripheral blood monocytes and neutrophils (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)
AAA326061 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)
AAA326061 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of T47D lysate using NCF1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NCF1 antibody

Description: The phagocytic NADPH oxidase is a multiprotein enzyme that catalyzes the reduction of oxygen to superoxide in response to pathogenic invasion. The NADPH oxidase consists of 6 subunits, including the membrane-bound p91 phox and p22 phox heterodimers (also known as cytochrome b558), the cytosolic complex of p40phox, p47phox and p67phox, and the small GTPase Rac2. Activation of NADPH oxidase is initiated by cytosolic complex phosphorylation, which induces a conformational change that leads to the translocation of the cytosolic complex to the membrane and formation of an active enzyme with cytochrome b558 (1). Defects in p47phox, often resulting from recombination between p47phox and a nearby homologous pseudogene, cause chronic granulomatous disease (2-4). Elevated oxidative stress due to increased myocardial NADPH oxidase activity may be a contributing factor in heart failure (5, 6).

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

Subunit Structure: Component of an NADPH oxidase complex composed of a heterodimer formed by the membrane proteins CYBA and CYBB and the cytosolic subunits NCF1, NCF2 and NCF4. Interacts (via C-terminus) with NCF2 (via the C-terminal SH3 domain). Interacts with NCF4. Interacts with CYBB. Interacts (via the second SH3 domain) with CYBA. Interacts with NOXA1. Interacts with ADAM15. Interacts with TRAF4. Interacts with FASLG. Interacts with PARK7 (via C-terminus); the interaction is enhanced by LPS and modulates NCF1 phosphorylation and membrane translocation (By similarity).

Post-translational Modifications: Phosphorylated by PRKCD; phosphorylation induces activation of NCF1 and NADPH oxidase activity.

Similarity: The PX domain mediates interaction with phosphatidylinositol 3, 4-bisphosphate and other anionic phospholipids. In the autoinhibited, unphosphorylated state an intramolecular interaction with the C-terminal SH3 domain precludes phospholipid binding and interaction with CYBA. Phosphorylation disrupts the autoinhibited state.

NCBI AND UNIPROT INFORMATION

NCBI GI #	528078313
NCBI GeneID	653361
NCBI Accession #	NP_000256.4
NCBI GenBank Nucleotide #	NM_000265.5
UniProt Accession #	P14598; O43842; Q2PP07; Q53FR5; Q9BU90; Q9BXI7; Q9BXI8; Q9UDV9; Q9UMU2; A6NEH2; A8K7S9
Molecular Weight	Observed: 45 kDa Predicted: 45 kDa
NCBI Official Full Name	neutrophil cytosol factor 1
NCBI Official Synonym Full Names	neutrophil cytosolic factor 1
NCBI Official Symbol	NCF1
NCBI Official Synonym Symbols	NCF1A; NOXO2; p47phox; SH3PXD1A
NCBI Protein Information	neutrophil cytosol factor 1
UniProt Protein Name	Neutrophil cytosol factor 1
UniProt Gene Name	NCF1
UniProt Synonym Gene Names	NOXO2; SH3PXD1A; NCF-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ncf1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326061>