

Rabbit NCF1/p47-phox Polyclonal Antibody | anti-NCF1/p47-phox antibody

Phospho-NCF1/p47-phox (Ser345) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329363	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry

PRODUCT SYNONYMS

NCF1/p47-phox; Polyclonal Antibody; Phospho-NCF1/p47-phox (Ser345) Antibody; 47kDa autosomal chronic granulomatous disease protein; 47kDa neutrophil oxidase factor; NADpHoxidase 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 NADpHoxidase 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/p47-phox antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-NCF1/p47-phox (Ser345) Antibody detects endogenous levels of NCF1/p47-phox only when phosphorylated at Ser345. Tissue Specificity: Detected in peripheral blood monocytes and neutrophils (at protein level).
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-NCF1/p47-phox antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human NCF1/p47-phox around the phosphorylation site of Ser345.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by PRKCD; phosphorylation induces activation of NCF1 and NADpHoxidase activity.
Subunit Structure	Component of an NADpHoxidase 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).
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.
Subcellular Location	Cytoplasm>Cytosol. Membrane>Peripheral membrane protein>Cytoplasmic side.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
Staining Mouse brain 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Rat brain 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NCF1/p47-phox antibody	NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADpHoxidase (necessary for superoxide production).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115298672
NCBI GeneID	653361
NCBI Accession #	NP_000256.3
NCBI GenBank Nucleotide #	NM_000265.4
UniProt Accession #	P14598; O43842; Q2PP07; Q53FR5; Q9BU90; Q9BXI7; Q9BXI8; Q9UDV9; Q9UMU2; A6NEH2; A8K7S9
Molecular Weight	44,652 Da
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; NCF-1; NCF-47K; p47-phox; nox organizer 2; nox-organizing protein 2; NADPH oxidase organizer 2; 47 kDa neutrophil oxidase factor; neutrophil NADPH oxidase factor 1; SH3 and PX domain-containing protein 1A; 47 kDa autosomal chr
UniProt Protein Name	Neutrophil cytosol factor 1
UniProt Gene Name	NCF1
UniProt Synonym Gene Names	NOXO2; SH3PXD1A; NCF-1
UniProt Entry Name	NCF1_HUMAN

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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