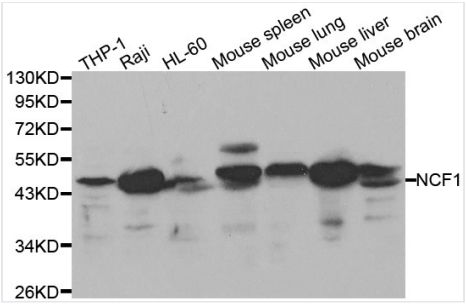
NCF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NCF1, Polyclonal Antibody
Full Product Name	NCF1 Antibody
Product Gene Name	anti-NCF1 antibody
Product Synonym Names	NCF1; FLJ79451; NCF1A; NOXO2; SH3PXD1A; p47phox
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	30,781 Da
OMIM	233700
Immunogen	Recombinant protein of human NCF1
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-23492 / sc-7660 / sc-14015
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NCF1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-NCF1 antibody	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).
Other Notes	Small volumes of anti-NCF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NCF1 purchase	MBS2528756 is an antibody targeting NCF1. Also known as NCF1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NCF1 antibody

Western blot analysis of extracts of various cell lines, using NCF1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NCF1. It may not necessarily be applicable to this product.

NCBI GI #	528078313
NCBI GeneID	653361
NCBI Accession #	NP_000256.4
UniProt Secondary Accession #	O43842; Q2PP07; Q53FR5; Q9BU90; Q9BXI7; Q9BXI8; Q9UDV9; Q9UMU2; A6NEH2; A8K7S9
UniProt Related Accession #	P14598
GenBank Nucleotide #	NM_000265.5
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
UniProt Protein Name	Neutrophil cytosol factor 1
UniProt Synonym Protein Names	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
Protein Family	Neutrophil cytosol factor
UniProt Gene Name	NCF1
UniProt Synonym Gene Names	NOXO2; SH3PXD1A; NCF-1
UniProt Entry Name	NCF1_HUMAN
NCBI Protein Information	neutrophil cytosol factor 1; 47 kDa autosomal chronic granulomatous disease protein; 47 kDa neutrophil oxidase factor; NADPH oxidase organizer 2; NCF-1; NCF-47K; SH3 and PX domain-containing protein 1A; neutrophil NADPH oxidase factor 1; neutrophil cytosolic factor 1, (chronic granulomatous disease, autosomal 1); nox organizer 2; nox-organizing protein 2; p47-phox
NCBI Summary for NCF1	The protein encoded by this gene is a 47 kDa cytosolic subunit of neutrophil NADPH oxidase. This oxidase is a multicomponent enzyme that is activated to produce superoxide anion. Mutations in this gene have been associated with chronic granulomatous disease. [provided by RefSeq, Jul 2008]

UniProt Comments for NCF1	p47phox: the 47-kilodalton cytosolic subunit of the multi-protein complex known as NADPH oxidase found in neutrophils. The holo-oxidase produces a burst of superoxide which is delivered to the lumen of the neutrophil phagosome. Contains 2 SH2 domains. Mutations in NCF1, as well as in other NADPH oxidase subunits, can result in chronic granulomatous disease. Protein type: EC 1.-.-.-; Oxidoreductase Chromosomal Location of Human Ortholog: 7q11.23 Cellular Component: Golgi apparatus; extrinsic to membrane; cell soma; rough endoplasmic reticulum; dendrite; cytosol; NADPH oxidase complex Molecular Function: protein binding; electron carrier activity; superoxide-generating NADPH oxidase activity; phosphatidylinositol-3,4-bisphosphate binding; SH3 domain binding; phosphoinositide binding Biological Process: respiratory burst during defense response; respiratory burst; interaction with host; apoptosis; superoxide metabolic process; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; leukotriene metabolic process; cell proliferation; antigen processing and presentation of peptide antigen via MHC class I; negative regulation of smooth muscle contraction; cellular defense response; antigen processing and presentation of exogenous peptide antigen via MHC class I; innate immune response; response to yeast; vascular endothelial growth factor receptor signaling pathway; inflammatory response; protein targeting to membrane; superoxide release; hydrogen peroxide biosynthetic process Disease: Granulomatous Disease, Chronic, Autosomal Recessive, Cytochrome B-positive, Type I
Research Articles on NCF1	**1.** Four novel mutations in the NCF1, NCF2, and CYBB genees have been identified in chronic granulomatous disease patients in Morocco.
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