

Rabbit NCF2 Polyclonal Antibody | anti-NCF2 antibody

NCF2 Antibody

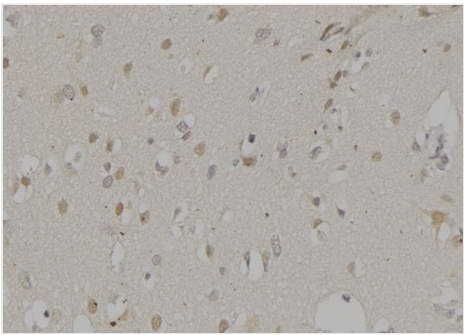
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326091	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

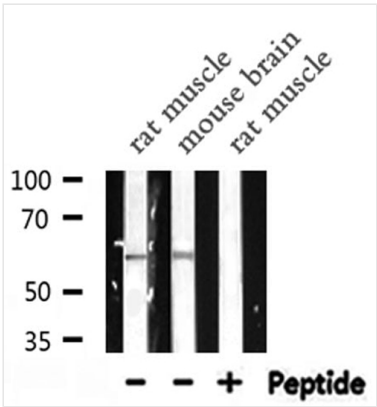
NCF2; Polyclonal Antibody; NCF2 Antibody; 67 kDa neutrophil oxidase factor; Chronic granulomatous disease autosomal 2; FLJ93058; NADPH oxidase activator 2; NCF-2; Ncf2; NCF2_HUMAN; Neutrophil cytosol factor 2; Neutrophil cytosolic factor 2 (65kD; chronic granulomatous disease; autosomal 2); Neutrophil NADPH oxidase factor 2; NOXA2; P67 PHOX; p67-phox; p67phox; anti-NCF2 antibody

PRODUCT SPECIFICATIONS

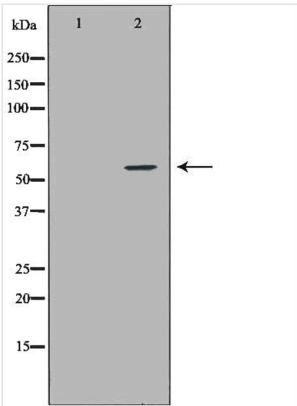
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	NCF2 antibody detects endogenous levels of total NCF2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	526
Applicable Applications for anti-NCF2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NCF2
Subcellular Location	Cytoplasm.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (88%), Horse (100%), Sheep (88%), Rabbit (88%), Dog (88%), Chicken (88%), Xenopus (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemisry)
AAA326091 at 1/100 staining Human 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 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 NCF2 expression in various lysates



WB (Western Blot)
Western blot analysis of THP1 using NCF2 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NCF2 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). p67phox appears to coordinate assembly of NAPDH oxidase as it associates with multiple subunits as well as the alpha subunit of heterotrimeric G proteins (7). Mutations in the corresponding p67phox gene are also associated with a form of autosomal recessive chronic granulomatous disease (8). 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 with NCF4. Interacts (via the C-terminal SH3 domain) with NCF1 (via C-terminus). Interacts with SYTL1 and RAC1. May interact with NOXO1. Interacts with S100A8 and calprotectin (S100A8/9). Similarity: The OPR/PB1 domain mediates the association with NCF4/p40-PHOX. Belongs to the NCF2/NOXA1 family.
References	Li R, Meng X, Zhang Y, Wang T, Yang J, Niu Y, Cui K, Wang S, Liu J, Rao K; Journal: PeerJ. Testosterone improves erectile function through inhibition of reactive oxygen species generation in castrated rats.

NCBI AND UNIPROT INFORMATION

NCBI GI #	67189970
NCBI GeneID	4688
NCBI Accession #	NP_000424.2
NCBI GenBank Nucleotide #	NM_000433.3
UniProt Accession #	P19878; Q2PP06; Q8NFC7; Q9BV51; B2R6Q1; B4DKQ7; B4DQA7; E9PHJ2; E9PHX3
Molecular Weight	Observed: 60 kDa Predicted: 60 kDa
NCBI Official Full Name	neutrophil cytosol factor 2 isoform 1
NCBI Official Synonym Full Names	neutrophil cytosolic factor 2
NCBI Official Symbol	NCF2
NCBI Official Synonym Symbols	NCF-2; NOXA2; P67PHOX; P67-PHOX
NCBI Protein Information	neutrophil cytosol factor 2
UniProt Protein Name	Neutrophil cytosol factor 2
UniProt Gene Name	NCF2
UniProt Synonym Gene Names	NOXA2; P67PHOX; NCF-2

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/ncf2-antibody-immunohistochemistry-western-blot-elisa/326091>