

Rabbit NOXA2/p67phox/NCF2 Polyclonal Antibody | anti-NCF2 antibody

Anti-NOXA2/p67phox/NCF2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125654	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NOXA2/p67phox/NCF2; Polyclonal Antibody; Anti-NOXA2/p67phox/NCF2 Antibody; Neutrophil cytosol factor 2; NCF-2; 67 kDa neutrophil oxidase factor; NADPH oxidase activator 2; Neutrophil NADPH oxidase factor 2; p67-phox; NCF2; NOXA2; P67PHOX; neutrophil cytosolic factor 2; anti-NCF2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for NOXA2/p67phox/NCF2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-NCF2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human NOXA2/p67phox/NCF2 recombinant protein (Position: M1-V526).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of THP-1 cells using anti-NOXA2/p67phox/NCF2 antibody (AAA125654). Overlay histogram showing THP-1 cells stained with AAA125654 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NOXA2/p67phox/NCF2 Antibody (AAA125654, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



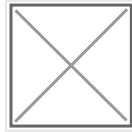
IHC (Immunohistochemistry)

Figure 4. IHC analysis of NOXA2/p67phox/NCF2 using anti-NOXA2/p67phox/NCF2 antibody (AAA125654). NOXA2/p67phox/NCF2 was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-NOXA2/p67phox/NCF2 Antibody (AAA125654) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



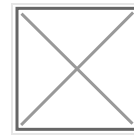
IHC (Immunohistochemisry)

Figure 3. IHC analysis of NOXA2/p67phox/NCF2 using anti-NOXA2/p67phox/NCF2 antibody (AAA125654). NOXA2/p67phox/NCF2 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-NOXA2/p67phox/NCF2 Antibody (AAA125654) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NOXA2/p67phox/NCF2 using anti-NOXA2/p67phox/NCF2 antibody (AAA125654). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human THP-1 whole cell lysates Lane 2: mouse RAW264. 7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-NOXA2/p67phox/NCF2 antigen affinity purified polyclonal antibody (Catalog # AAA125654) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NOXA2/p67phox/NCF2 at approximately 60KD. The expected band size for NOXA2/p67phox/NCF2 is at 60KD.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of NOXA2/p67phox/NCF2 using anti-NOXA2/p67phox/NCF2 antibody (AAA125654). NOXA2/p67phox/NCF2 was detected in paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-NOXA2/p67phox/NCF2 Antibody (AAA125654) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-NCF2 antibody	This gene encodes neutrophil cytosolic factor 2, the 67-kilodalton cytosolic subunit of the multi-protein NADPH oxidase complex found in neutrophils. This oxidase produces a burst of superoxide which is delivered to the lumen of the neutrophil phagosome. Mutations in this gene, as well as in other NADPH oxidase subunits, can result in chronic granulomatous disease, a disease that causes recurrent infections by catalase-positive organisms. Alternative splicing results in multiple transcript variants encoding different isoforms.
References	1. Francke, U., Hsieh, C. -L., Foellmer, B. E., Lomax, K. J., Malech, H. L., Leto, T. L. Genes for two autosomal recessive forms of chronic granulomatous disease assigned to 1q25 (NCF2) and 7q11. 23 (NCF1). Am. J. Hum. Genet. 47: 483-492, 1990. 2. Noack, D., Rae, J., Cross, A. R., Munoz, J., Salmen, S., Mendoza, J. A., Rossi, N., Curnutte, J. T., Heyworth, P. G. Autosomal recessive chronic granulomatous disease caused by novel mutations in NCF-2, the gene encoding the p67-phox component of phagocyte NADPH oxidase. Hum. Genet. 105: 460-467, 1999. 3. Sancho-Shimizu, V., Malo, D. Sequencing, expression, and functional analyses support the candidacy of Ncf2 in susceptibility to Salmonella Typhimurium infection in wild-derived mice. J. Immun. 176: 6954-6961, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1346669
NCBI GeneID	4688
UniProt Accession #	P19878 ; Q2PP06 ; Q8NFC7 ; Q9BV51 ; B2R6Q1 ; B4DKQ7 ; B4DQA7 ; E9PHJ2 ; E9PHX3
Molecular Weight	59,762 Da
NCBI Official Full Name	Neutrophil cytosol factor 2
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; NADPH oxidase activator 2; 67 kDa neutrophil oxidase factor; neutrophil NADPH oxidase factor 2; chronic granulomatous disease, autosomal 2; neutrophil cytosolic factor 2 (65kD, chronic granulomatous disease, autosomal 2)
UniProt Protein Name	Neutrophil cytosol factor 2
UniProt Gene Name	NCF2
UniProt Synonym Gene Names	NOXA2; P67PHOX; NCF-2
UniProt Entry Name	NCF2_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/noxa2-p67phox-ncf2-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125654>