

## Rabbit NCF4 Polyclonal Antibody | anti-NCF4 antibody

NCF4 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA326580 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

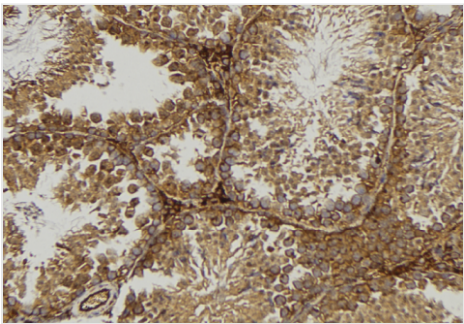
### PRODUCT SYNONYMS

NCF4; Polyclonal Antibody; NCF4 Antibody; CGD3; MGC3810; NCF 4; NCF; NCF-4; Ncf4; NCF4\_HUMAN; Neutrophil cytosol factor 4; Neutrophil cytosolic factor 4; Neutrophil NADPH oxidase factor 4; p40-phox; p40phox; SH3 and PX domain-containing protein 4; SH3PXD4; anti-NCF4 antibody

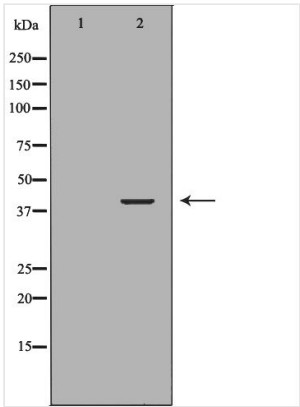
### PRODUCT SPECIFICATIONS

|                                                |                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                        |
| Reactivity                                     | Human, Mouse, Rat                                                                             |
| Clonality                                      | Polyclonal                                                                                    |
| Isotype                                        | IgG                                                                                           |
| Specificity                                    | NCF4 antibody detects endogenous levels of total NCF4                                         |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                | 339                                                                                           |
| Applicable Applications for anti-NCF4 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                          |
| Immunogen                                      | A synthesized peptide derived from human NCF4                                                 |
| Subcellular Location                           | Cytoplasm.                                                                                    |
| Tissue Specificity                             | Expression is restricted to hematopoietic cells.                                              |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog</b>                                                 |
| Similarity                                     | Pig (92%), Bovine (92%), Horse (92%), Sheep (83%), Rabbit (100%), Dog (83%)                   |
| Conjugation                                    | Unconjugated                                                                                  |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                             |

IMAGES



**IHC (Immunohistochemistry)**  
AAA326580 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 extracts of K562, using NCF4 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

**Related Product Information for anti-NCF4 antibody**

**Description:** The protein encoded by this gene is a cytosolic regulatory component of the superoxide-producing phagocyte NADPH-oxidase, a multicomponent enzyme system important for host defense. This protein is preferentially expressed in cells of myeloid lineage. It interacts primarily with neutrophil cytosolic factor 2 (NCF2/p67-phox) to form a complex with neutrophil cytosolic factor 1 (NCF1/p47-phox), which further interacts with the small G protein RAC1 and translocates to the membrane upon cell stimulation. This complex then activates flavocytochrome b, the membrane-integrated catalytic core of the enzyme system. The PX domain of this protein can bind phospholipid products of the PI(3) kinase, which suggests its role in PI(3) kinase-mediated signaling events. The phosphorylation of this protein was found to negatively regulate the enzyme activity. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

**Function:** Component of the NADPH-oxidase, a multicomponent enzyme system responsible for the oxidative burst in which electrons are transported from NADPH to molecular oxygen, generating reactive oxidant intermediates. It may be important for the assembly and/or activation of the NADPH-oxidase complex.

**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. NCF4 interacts primarily with NCF2 to form a complex with NCF1.

**Similarity:** The PB1 domain mediates the association with NCF2/p67-PHOX. The PX domain mediates interaction with membranes enriched in phosphatidylinositol 3-phosphate.

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 47519798                                       |
| NCBI GeneID                      | 4689                                           |
| NCBI Accession #                 | NP_000622.2                                    |
| NCBI GenBank Nucleotide #        | NM_000631.4                                    |
| UniProt Accession #              | Q15080; O60808; Q86U56; Q9BU98; Q9NP45; A8K4F9 |
| Molecular Weight                 | Observed: 39 kDa<br>Predicted: 40 kDa          |
| NCBI Official Full Name          | neutrophil cytosol factor 4 isoform 1          |
| NCBI Official Synonym Full Names | neutrophil cytosolic factor 4                  |
| NCBI Official Symbol             | NCF4                                           |
| NCBI Official Synonym Symbols    | NCF; CGD3; P40PHOX; SH3PXD4                    |
| NCBI Protein Information         | neutrophil cytosol factor 4                    |

|                            |                             |
|----------------------------|-----------------------------|
| UniProt Protein Name       | Neutrophil cytosol factor 4 |
| UniProt Gene Name          | <b>NCF4</b>                 |
| UniProt Synonym Gene Names | SH3PXD4; NCF-4; p40phox     |

**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://www.aaabiotech.com/polyclonal/ncf4-antibody-immunohistochemistry-western-blot-elisa/326580>