

## Product datasheet for **AP01461PU-M**

### NCF1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of p47-phox protein. (region surrounding Pro366)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 45 kDa
Gene Name:	neutrophil cytosolic factor 1
Database Link:	<a href="#">Entrez Gene 17969 Mouse</a> <a href="#">Entrez Gene 114553 Rat</a> <a href="#">Entrez Gene 653361 Human</a> <a href="#">P14598</a>



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**Background:**

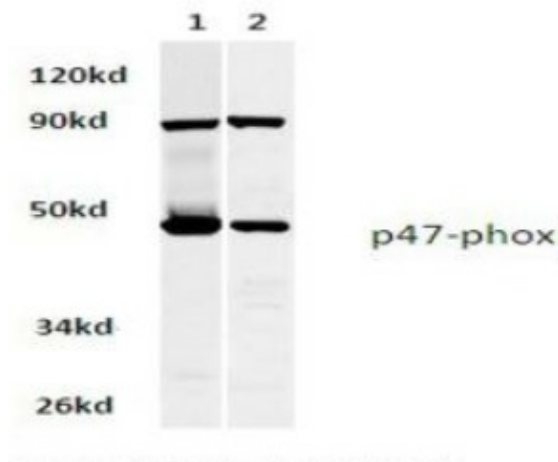
The hereditary disease chronic granulomatous disease (CGF) has been linked to mutations in p47-phox and p67-phox. The cytosolic proteins p47-phox and p67-phox, also designated neutrophil cytosol factor (NCF)1 and NCF2, respectively, are required for activation of the superoxide-producing NADPH oxidase in neutrophils and other phagocytic cells. During activation of the NADPH oxidase, p47-phox and p67-phox migrate to the plasma membrane where they associate with cytochrome b558 and the small G protein Rac to form the functional enzyme complex. Both p47-phox and p67-phox contain two Src homology 3 (SH3) domains. The C-terminal SH3 domain of p67-phox has been shown to interact with the proline rich domain of p47-phox, suggesting that p47-phox may facilitate the transport of p67-phox to the membrane.

**Synonyms:**

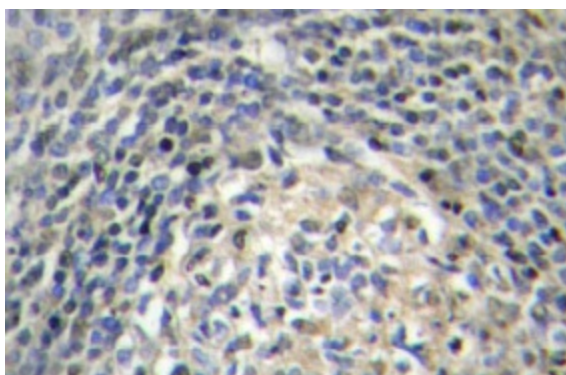
NCF-1, Neutrophil cytosol factor 1, NOXO2, Nox organizer 2, SH3PXD1A

**Protein Pathways:**

Chemokine signaling pathway, Fc gamma R-mediated phagocytosis, Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton

**Product images:**


Western blot (WB) analysis of p47-phox antibody (Cat.-No.: [AP01461PU-N]) in extracts from MCF7 (Lane 1) and HeLa (Lane 2) cells at 1/500 dilution.



Immunohistochemistry (IHC) analysis of p47-phox antibody (Cat.-No.: [AP01461PU-N]) in paraffin-embedded human testis tissue.