

NCF1 / p47phox / p47 phox Antibody (aa341-390)
Rabbit Polyclonal Antibody
Catalog # ALS14220**Specification**

NCF1 / p47phox / p47 phox Antibody (aa341-390) - Product Information

Application	WB, IHC
Primary Accession	P14598
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45kDa KDa

NCF1 / p47phox / p47 phox Antibody (aa341-390) - Additional Information**Gene ID** 653361**Other Names**

Neutrophil cytosol factor 1, NCF-1, 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, NCF1, NOXO2, SH3PXD1A

Target/Specificity

p47 phox Antibody detects endogenous levels of total p47 phox protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

NCF1 / p47phox / p47 phox Antibody (aa341-390) is for research use only and not for use in diagnostic or therapeutic procedures.

NCF1 / p47phox / p47 phox Antibody (aa341-390) - Protein Information**Name** NCF1 ([HGNC:7660](#))**Synonyms** NOXO2, SH3PXD1A**Function**

Subunit of the phagocyte NADPH oxidase complex that mediates the transfer of electrons from cytosolic NADPH to O₂ to produce the superoxide anion (O₂⁻) (PubMed:2547247, PubMed:2550933, PubMed:38355798). In the activated complex, electrons are first transferred from NADPH to flavin adenine dinucleotide (FAD) and subsequently transferred via two heme molecules to molecular oxygen, producing superoxide through an outer-sphere reaction (PubMed:<a href="http://www.uniprot.org/citations/38355798"

target="_blank">38355798). Activation of the NADPH oxidase complex is initiated by the assembly of cytosolic subunits of the NADPH oxidase complex with the core NADPH oxidase complex to form a complex at the plasma membrane or phagosomal membrane (PubMed:38355798). This activation process is initiated by phosphorylation dependent binding of the cytosolic NCF1/p47-phox subunit to the C-terminus of CYBA/p22-phox (PubMed:12732142, PubMed:19801500).

Cellular Location

Cytoplasm, cytosol. Membrane; Peripheral membrane protein; Cytoplasmic side

Tissue Location

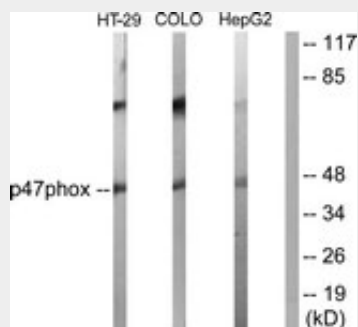
Detected in peripheral blood monocytes and neutrophils (at protein level).

NCF1 / p47phox / p47 phox Antibody (aa341-390) - Protocols

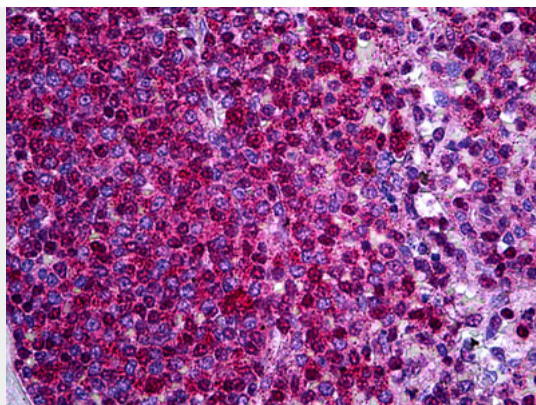
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NCF1 / p47phox / p47 phox Antibody (aa341-390) - Images



Western blot of extracts from HT-29/COLO205/HepG2 cells, using p47 phox Antibody.



Anti-p47phox antibody IHC of human spleen.

NCF1 / p47phox / p47 phox Antibody (aa341-390) - Background

NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production).

NCF1 / p47phox / p47 phox Antibody (aa341-390) - References

Volpp B.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:7195-7199(1989).
Volpp B.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:9563-9563(1989).
Lomax K.J.,et al.Science 245:409-412(1989).
Rodaway A.R.F.,et al.Mol. Cell. Biol. 10:5388-5396(1990).
Gorlach A.,et al.J. Clin. Invest. 100:1907-1918(1997).