

p47phox (mouse) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3417a**Specification**

p47phox (mouse) Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	P14598
Other Accession	NP_035006.3 , 653361 , 17969 (mouse) , 114553 (rat)
Reactivity	Mouse
Predicted	Human, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	44682

p47phox (mouse) Antibody (internal region) - 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

Dilution

WB~~1:1000
E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

p47phox (mouse) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

p47phox (mouse) Antibody (internal region) - 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: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

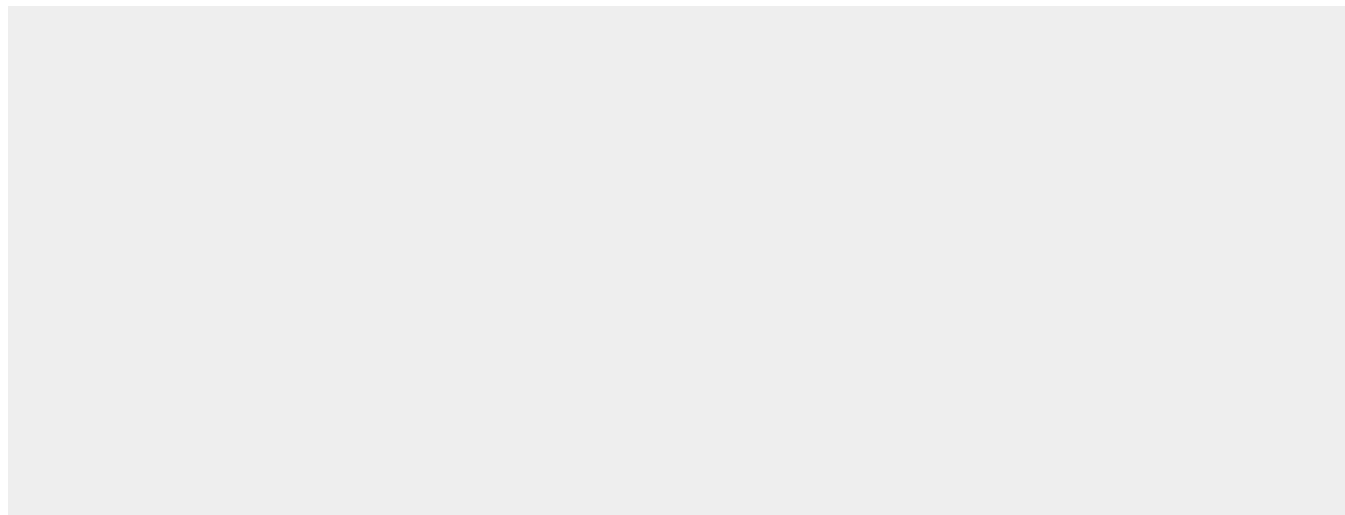
Tissue Location

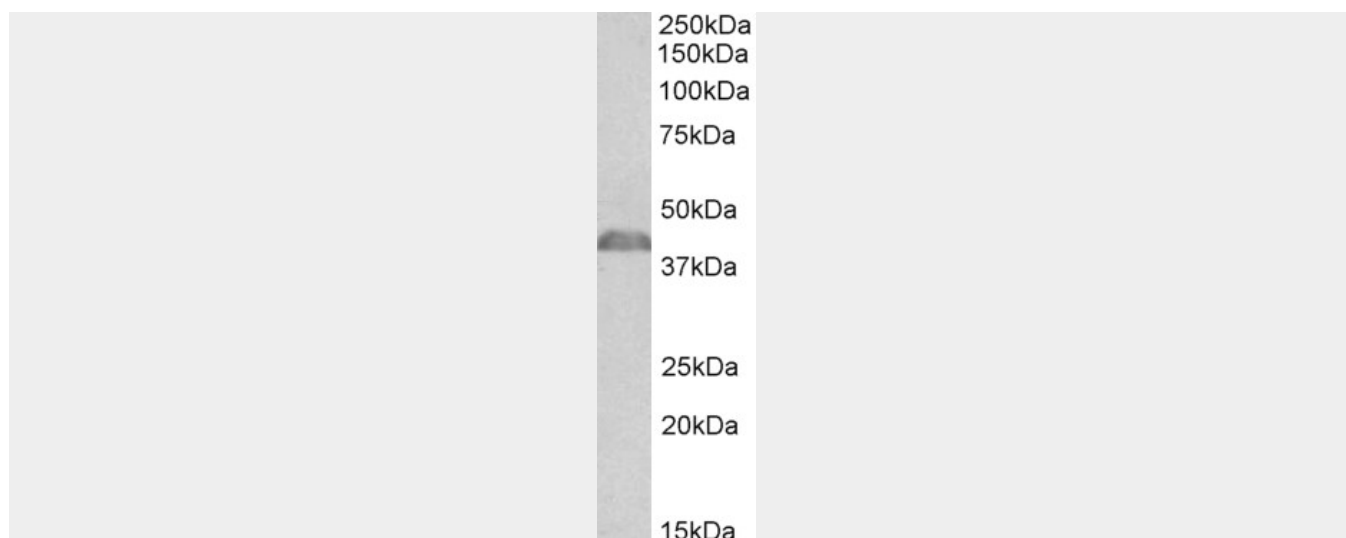
Detected in peripheral blood monocytes and neutrophils (at protein level).

p47phox (mouse) Antibody (internal region) - 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](#)

p47phox (mouse) Antibody (internal region) - Images



AF3417a (0.03 µg/ml) staining of Mouse Thymus lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

p47phox (mouse) Antibody (internal region) - References

Hematologically important mutations: the autosomal recessive forms of chronic granulomatous disease (second update). Roos D, Kuhns DB, Maddalena A, Bustamante J, Kannengiesser C, de Boer M, van Leeuwen K, KÅ¶ker MY, Wolach B, Roesler J, Malech HL, Holland SM, Gallin JI, Stasia MJ, Blood cells, molecules & diseases 2010 Apr 44 (4): 291-9. PMID: 20167518