

Goat Anti-NCF1 / p47phox Antibody
Peptide-affinity purified goat antibody
Catalog # AF1709a**Specification**

Goat Anti-NCF1 / p47phox Antibody - Product Information

Application	WB
Primary Accession	P14598
Other Accession	NP_000256 , 653361 , 17969 (mouse) , 114553 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Rabbit, Pig, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	44682

Goat Anti-NCF1 / p47phox Antibody - 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

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, 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

Goat Anti-NCF1 / p47phox Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-NCF1 / p47phox Antibody - Protein Information**Name** NCF1**Synonyms** NOXO2, SH3PXD1A**Function**

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

Cellular Location

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

Tissue Location

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

Goat Anti-NCF1 / p47phox Antibody - 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](#)

Goat Anti-NCF1 / p47phox Antibody - Images

AF1709a (0.2 µg/ml) staining of U937 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-NCF1 / p47phox Antibody - Background

The protein encoded by this gene is a 47 kDa cytosolic subunit of neutrophil NADPH oxidase. This oxidase is a multicomponent enzyme that is activated to produce superoxide anion. Mutations in this gene have been associated with chronic granulomatous disease.

Goat Anti-NCF1 / p47phox Antibody - References

Hematologically important mutations: the autosomal recessive forms of chronic granulomatous disease (second update). Roos D, et al. Blood Cells Mol Dis, 2010 Apr 15. PMID 20167518.

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NOX activity is increased in mild cognitive impairment. Bruce-Keller AJ, et al. Antioxid Redox Signal, 2010 Jun 15. PMID 19929442.

Dynamin 2 and c-Abl are novel regulators of hyperoxia-mediated NADPH oxidase activation and reactive oxygen species production in caveolin-enriched microdomains of the endothelium.

Singleton PA, et al. J Biol Chem, 2009 Dec 11. PMID 19833721.

Identification of SH3 domain interaction partners of human FasL (CD178) by phage display screening. Voss M, et al. BMC Immunol, 2009 Oct 6. PMID 19807924.