

# p47-phox Polyclonal Antibody

Catalog # AP71703

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">P14598</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	44682

## Additional Information

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<b>Gene ID</b>	653361
<b>Other Names</b>	NCF1; NOXO2; SH3PXD1A; 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
<b>Dilution</b>	WB--Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications. IHC-P--N/A IF--1:50~200 ICC--N/A E--N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	NCF1 ( <a href="#">HGNC:7660</a> )
<b>Synonyms</b>	NOXO2, SH3PXD1A
<b>Function</b>	Subunit of the phagocyte NADPH oxidase complex that mediates the transfer of electrons from cytosolic NADPH to O <sub>2</sub> to produce the superoxide anion (O <sub>2</sub> <sup>-</sup> ) (PubMed: <a href="#">2547247</a> , PubMed: <a href="#">2550933</a> , PubMed: <a href="#">38355798</a> ). 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="#">38355798</a> ). 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: <a href="#">38355798</a> ). 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).

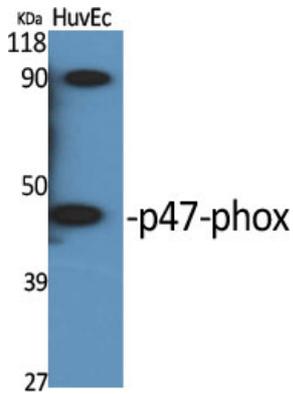
**Background**

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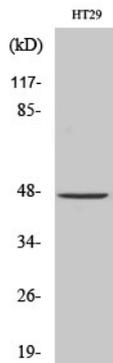
NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production).

**Images**

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Western Blot analysis of various cells using p47-phox Polyclonal Antibody



Western Blot analysis of COLO205 cells using p47-phox Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.