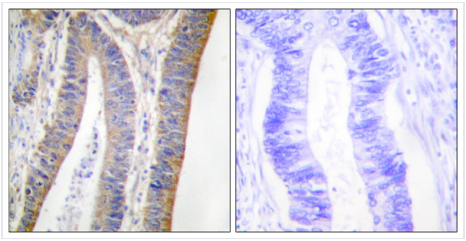
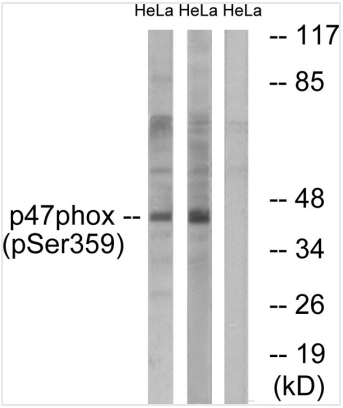
p47 phox Antibody

PRODUCT OVERVIEW

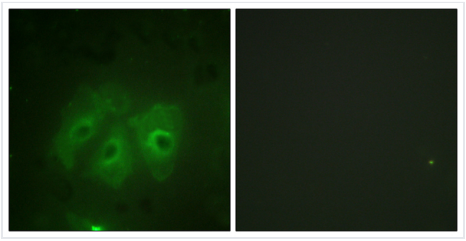
Product Name	p47 phox, Antibody
Full Product Name	p47 phox (Phospho-Ser359) Antibody
Product Gene Name	anti-p47 phox antibody
Product Synonym Names	47 kDa autosomal chronic granulomatous disease protein; 47 kDa neutrophil oxidase factor; NCF-1; NCF-47K; NCF1; Neutrophil NADPH oxidase factor 1; Neutrophil cytosol factor 1; Neutrophil cytosolic factor 1; P47 phox; p47-phox
Species Reactivity	Human
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified fromrabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Specificity	p47 phox (Phospho-Ser359) antibody detects endogenous levels of p47 phox only when phosphorylated at serine 359.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	30,811 Da
OMIM	233700
3D Structure	ModBase 3D Structure for P14598
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human p47 phox around the phosphorylation site of serine 359 (Q-R-SP-K-P).
All Sites	Human: Ser359
Product Categories/Family for anti-p47 phox antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-p47 phox antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-p47 phox antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 IF: 1:100~1:500 ELISA: 1:5000
Related Product Information for anti-p47 phox antibody	MBS857960 is an antibody targeting p47 phox. Also known as p47 phox (Phospho-Ser359) Antibody. Reactive in Human.
Product References and Citations for anti-p47 phox antibody	Volpp B.D., Proc. Natl. Acad. Sci. U.S.A. 86:7195-7199(1989). Volpp B.D., Proc. Natl. Acad. Sci. U.S.A. 86:9563-9563(1989). Lomax K.J., Science 245:409-412(1989).
Other Notes	Small volumes of anti-p47 phox antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-p47 phox antibody
P-peptide-+



Immunohistochemistry (IHC) of anti-p47 phox antibody
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue using p47 phox (Phospho-Ser359) antibody. Western blot analysis of extracts from HeLa cells treated with nocodazole (1ug/ml, 18hours) and HeLa cells treated with TSA (400nM, 24hours), using p47 phox (Phospho-Ser359) antibody.



Immunofluorescence (IF) of anti-p47 phox antibody
P-peptide-+ Immunofluorescence analysis of HeLa cells, using p47 phox (Phospho-Ser359) antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for p47 phox. It may not necessarily be applicable to this product.

NCBI GI #	528078313
NCBI GeneID	653361
NCBI Accession #	NP_000256.4
UniProt Primary Accession #	P14598
UniProt Secondary Accession #	O43842; Q2PP07; Q53FR5; Q9BU90; Q9BXI7; Q9BXI8; Q9UDV9; Q9UMU2; A6NEH2; A8K7S9
UniProt Related Accession #	P14598
GenBank Nucleotide #	NM_000265.5
NCBI Official Full Name	neutrophil cytosol factor 1
NCBI Official Synonym Full Names	neutrophil cytosolic factor 1
NCBI Official Symbol	NCF1
NCBI Official Synonym Symbols	NCF1A; NOXO2; p47phox; SH3PXD1A
UniProt Protein Name	Neutrophil cytosol factor 1
UniProt Synonym Protein Names	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
Protein Family	Neutrophil cytosol factor
UniProt Gene Name	NCF1

UniProt Synonym Gene Names	NOXO2; SH3PXD1A; NCF-1
NCBI Protein Information	neutrophil cytosol factor 1
NCBI Summary for p47 phox	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. [provided by RefSeq, Jul 2008]
UniProt Comments for p47 phox	NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production).
Research Articles on p47 phox	**1.** p47phox S-glutathionylation plays an essential key role in the sustained ROS generation by human neutrophils.
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