

**p47-phox (phospho Ser359) Polyclonal Antibody**

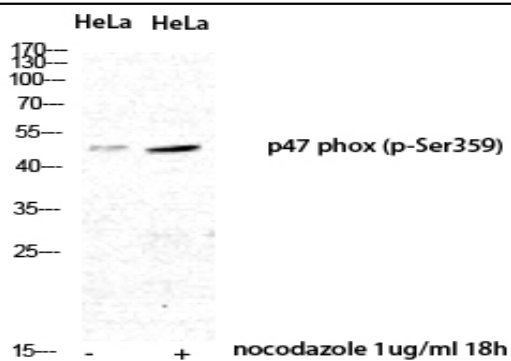
<b>Catalog No :</b>	YP0944
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	p47-phox
<b>Fields :</b>	>>Chemokine signaling pathway;>>Phagosome;>>Osteoclast differentiation;>>Neutrophil extracellular trap formation;>>Fc gamma R-mediated phagocytosis;>>Leukocyte transendothelial migration;>>Prion disease;>>Leishmaniasis;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy;>>Lipid and atherosclerosis;>>Fluid shear stress and atherosclerosis
<b>Gene Name :</b>	NCF1
<b>Protein Name :</b>	Neutrophil cytosol factor 1
<b>Human Gene Id :</b>	653361
<b>Human Swiss Prot No :</b>	P14598
<b>Mouse Swiss Prot No :</b>	Q09014
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human p47 phox around the phosphorylation site of Ser359. AA range:331-380
<b>Specificity :</b>	Phospho-p47-phox (S359) Polyclonal Antibody detects endogenous levels of p47-phox protein only when phosphorylated at S359.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.

The antibody was affinity-purified from rabbit antiserum by affinity-

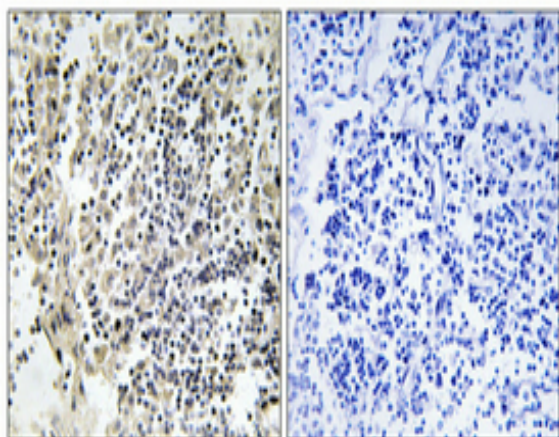
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<b>Purification :</b>	<u>chromatography using epitope-specific immunogen.</u>
<b>Concentration :</b>	<u>1 mg/ml</u>
<b>Storage Stability :</b>	<u>-15°C to -25°C/1 year(Do not lower than -25°C)</u>
<b>Observed Band :</b>	<u>45kD</u>
<b>Cell Pathway :</b>	<u>Chemokine;Fc gamma R-mediated phagocytosis;Leukocyte transendothelial migration;</u>
<b>Background :</b>	<u>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],</u>
<b>Function :</b>	<u>disease:Defects in NCF1 are the cause of chronic granulomatous disease autosomal recessive cytochrome-b-positive type 1 (CGD1) [MIM:233700]. Chronic granulomatous disease is a genetically heterogeneous disorder characterized by the inability of neutrophils and phagocytes to kill microbes that they have ingested. Patients suffer from life-threatening bacterial/fungal infections.,function:NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production).,online information:NCF1 deficiency database,similarity:Contains 1 PX (phox homology) domain.,similarity:Contains 2 SH3 domains.,subunit:Interacts with NOXA1.,</u>
<b>Subcellular Location :</b>	<u>Cytoplasm, cytosol . Membrane ; Peripheral membrane protein ; Cytoplasmic side .</u>
<b>Expression :</b>	<u>Detected in peripheral blood monocytes and neutrophils (at protein level).</u>

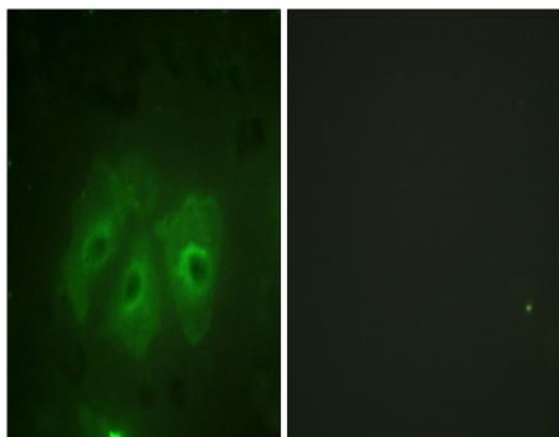
## Products Images



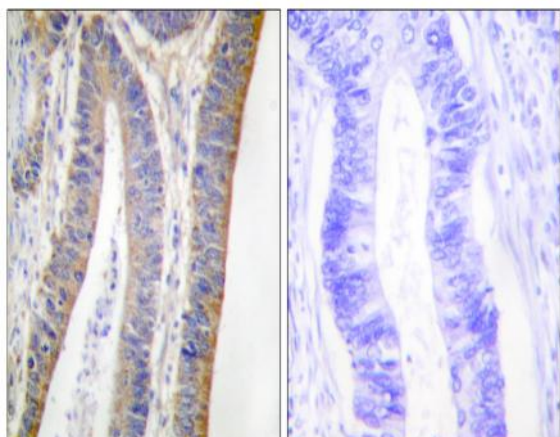
Western Blot analysis of HeLa nocodazole 1ug/ml 18h cells using Phospho-p47-phox (S359) Polyclonal Antibody diluted at 1:500



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunofluorescence analysis of HeLa cells, using p47 phox (Phospho-Ser359) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using p47 phox (Phospho-Ser359) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with nocodazole 1ug/ml 18h, using p47 phox (Phospho-Ser359) Antibody. The lane on the right is blocked with the phospho peptide.