

**p40-phox (phospho Thr154) Polyclonal Antibody**

<b>Catalog No :</b>	YP0971
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	p40-phox
<b>Fields :</b>	>>Phagosome;>>Osteoclast differentiation;>>Neutrophil extracellular trap formation;>>Leukocyte transendothelial migration;>>Prion disease;>>Leishmaniasis;>>Diabetic cardiomyopathy;>>Lipid and atherosclerosis
<b>Gene Name :</b>	NCF4
<b>Protein Name :</b>	Neutrophil cytosol factor 4
<b>Human Gene Id :</b>	4689
<b>Human Swiss Prot No :</b>	Q15080
<b>Mouse Gene Id :</b>	17972
<b>Mouse Swiss Prot No :</b>	P97369
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human p40 phox around the phosphorylation site of Thr154. AA range:120-169
<b>Specificity :</b>	Phospho-p40-phox (T154) Polyclonal Antibody detects endogenous levels of p40-phox protein only when phosphorylated at T154.
<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>	IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Molecularweight :** 39kD

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**Cell Pathway :** Leukocyte transendothelial migration;

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**Background :** The protein encoded by this gene is a cytosolic regulatory component of the superoxide-producing phagocyte NADPH-oxidase, a multicomponent enzyme system important for host defense. This protein is preferentially expressed in cells of myeloid lineage. It interacts primarily with neutrophil cytosolic factor 2 (NCF2/p67-phox) to form a complex with neutrophil cytosolic factor 1 (NCF1/p47-phox), which further interacts with the small G protein RAC1 and translocates to the membrane upon cell stimulation. This complex then activates flavocytochrome b, the membrane-integrated catalytic core of the enzyme system. The PX domain of this protein can bind phospholipid products of the PI(3) kinase, which suggests its role in PI(3) kinase-mediated signaling events. The phosphorylation of this protein was found to negatively regulate the enzyme activity. Alternatively spliced transcript variants encoding d

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**Function :** function:Component of the NADPH-oxidase, a multicomponent enzyme system responsible for the oxidative burst in which electrons are transported from NADPH to molecular oxygen, generating reactive oxidant intermediates. It may be important for the assembly and/or activation of the NADPH-oxidase complex.,similarity:Contains 1 PX (phox homology) domain.,similarity:Contains 1 SH3 domain.,subunit:p40-PHOX associates primarily with p67-PHOX to form a complex with p47-PHOX.,tissue specificity:Expression is restricted to hematopoietic cells.,

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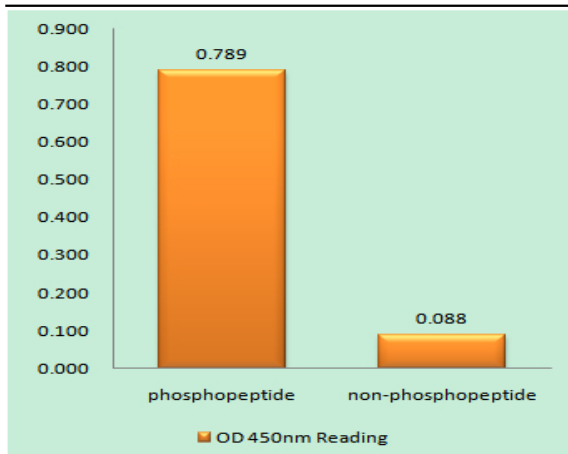
**Subcellular Location :** Cytoplasm, cytosol . Endosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Membrane ; Peripheral membrane protein .

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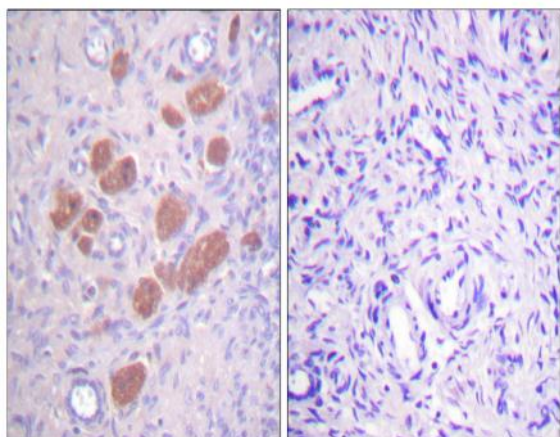
**Expression :** Expression is restricted to hematopoietic cells.

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## Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using p40 phox (Phospho-Thr154) Antibody



Immunohistochemistry analysis of paraffin-embedded human ovary, using p40 phox (Phospho-Thr154) Antibody. The picture on the right is blocked with the phospho peptide.