

## p40-phox (phospho Thr154) Polyclonal Antibody

Catalog No: YP0971

**Reactivity:** Human; Mouse

**Applications:** IHC;IF;ELISA

Target: p40-phox

**Fields:** >>Phagosome;>>Osteoclast differentiation;>>Neutrophil extracellular trap

formation;>>Leukocyte transendothelial migration;>>Prion

disease;>>Leishmaniasis;>>Diabetic cardiomyopathy;>>Lipid and

atherosclerosis

Gene Name: NCF4

**Protein Name:** Neutrophil cytosol factor 4

Q15080

P97369

Human Gene Id: 4689

**Human Swiss Prot** 

No:

Mouse Gene Id: 17972

**Mouse Swiss Prot** 

No:

**Immunogen :** The antiserum was produced against synthesized peptide derived from human

p40 phox around the phosphorylation site of Thr154. AA range:120-169

**Specificity:** Phospho-p40-phox (T154) Polyclonal Antibody detects endogenous levels of

p40-phox protein only when phosphorylated at T154.

**Formulation:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution :** IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

1/3



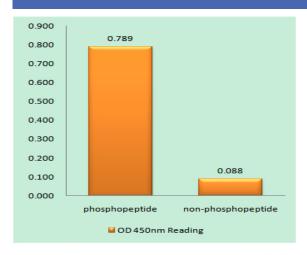
Host:

Rabbit

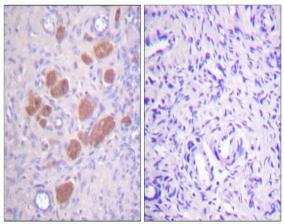
chromatography using epitope-specific immunogen. **Concentration:** 1 mg/ml -15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability: Molecularweight:** 39kD Leukocyte transendothelial migration; **Cell Pathway:** The protein encoded by this gene is a cytosolic regulatory component of the **Background:** 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 **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., Subcellular Cytoplasm, cytosol. Endosome membrane; Peripheral membrane protein; Cytoplasmic side . Membrane ; Peripheral membrane protein . Location: Expression is restricted to hematopoietic cells. **Expression:** Sort: 255 4311S No2: No4:

Modifications: Phospho

## **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.