

Recombinant Anti-p40 phox Rabbit mAb

Catalog # AP95368

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	Q15080
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	39032

Additional Information

Gene ID	4689
Other Names	SH3PXD4; Neutrophil cytosol factor 4; NCF-4; Neutrophil NADPH oxidase factor 4; SH3 and PX domain-containing protein 4; p40-phox; p40phox
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human p40 phox protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

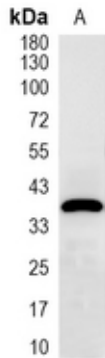
Name	NCF4 (HGNC:7662)
Synonyms	SH3PXD4
Function	Subunit of the phagocyte NADPH oxidase complex that mediates the transfer of electrons from cytosolic NADPH to O₂ to produce the superoxide anion (O₂⁻) (Probable). In the activated complex, electrons are first transferred from NADPH to flavin adenine dinucleotide (FAD) and subsequently transferred via two heme molecules to molecular oxygen, producing superoxide through an outer-sphere reaction (By similarity). 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 (By similarity). This activation process is initiated by phosphorylation dependent binding of the cytosolic NCF1/p47-phox subunit to the C-terminus of CYBA/p22-phox (By similarity).
Cellular Location	Cytoplasm, cytosol. Endosome membrane; Peripheral membrane protein;

Cytoplasmic side. Membrane; Peripheral membrane protein.
Note=Translocates to the membrane upon activation by phorbol myristate acetate (PMA)

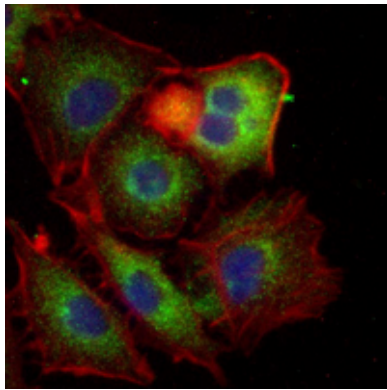
Tissue Location

Expression is restricted to hematopoietic cells.

Images



Western blot analysis of p40 phox expression in MCF7 (A) whole cell lysates. (Predicted band size: 39 kD; Observed band size: 39 kD)



Immunofluorescent analysis of p40 phox staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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