

CAB0935

Product Information

Product SKU: CAB0935	Gene ID: 4689	Size: 20uL, 100uL
Clone No: ARC2553	Host Species: Rabbit	Reactivity: Human, Mouse

Additional Information

Observed MW: 40kDa	Conjugate: Unconjugated
Calculated MW: 39kDa	Isotype: IgG

Immunogen Information

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 distinct isoforms have been observed.

Recommended Dilution: WB, 1:500 - 1:1000 IHC-P, 1:50 - 1:200 IP, 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells

Synonyms: NCF; CGD3; P40PHOX; SH3PXD4; NCF4/p40-phox

Purification Method: Affinity purification

Immunogen: A synthetic peptide corresponding to a sequence within amino acids 240-339 of human NCF4/p40-phox (Q15080).

Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH 7.3.