

p40-phox Polyclonal Antibody

Cat No: HR1AP7451

For research use only

Overview

Product Name	p40-phox Polyclonal Antibody
Source	Rabbit
Applications	IHC-p, WB, ELISA
Species Reactivity	Human, Mouse
Recommended Dilutions	
Immunogen	
Species	Rabbit
Storage	-20°C/1 year
Isotype	
Clonality	
Concentration	1 mg/ml
Observed band	40kDa
GeneID? Human?	NCF4
Human Swiss-Prot No.	
Cellular localization	
Alternative Names	NCF4; SH3PXD4; Neutrophil cytosol factor 4; NCF-4; Neutrophil NADPH oxidase factor 4; SH3 and PX domain-containing protein 4; p40-phox; p40phox
Background	neutrophil cytosolic factor 4(NCF4) Homo sapiens 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