



# Human NCF4 blocking peptide (CDBP1981)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Blocking/Immunizing peptide for anti-NCF4/P40PHOX antibody
<b>Antigen Description</b>	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. [provided by RefSeq, Jul 2008]
<b>Species</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Apuri, BL, ELISA
<b>Format</b>	Lyophilized powder
<b>Size</b>	100 µg
<b>Preservative</b>	None
<b>Storage</b>	Shipped at ambient temperature, store at -20°C.

## GENE INFORMATION

**Gene Name** [NCF4 neutrophil cytosolic factor 4, 40kDa \[ Homo sapiens \]](#)

<b>Official Symbol</b>	NCF4
<b>Synonyms</b>	NCF4; neutrophil cytosolic factor 4, 40kDa; neutrophil cytosolic factor 4 (40kD); neutrophil cytosol factor 4; neutrophil NADPH oxidase factor 4; p40phox; SH3PXD4; NCF-4; p40-phox; SH3 and PX domain-containing protein 4; NCF; P40PHOX; MGC3810;
<b>Entrez Gene ID</b>	<a href="#">4689</a>
<b>mRNA Refseq</b>	<a href="#">NM_000631</a>
<b>Protein Refseq</b>	<a href="#">NP_000622</a>
<b>UniProt ID</b>	Q15080
<b>Chromosome Location</b>	22q13.1
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Cross-presentation of particulate exogenous antigens (phagosomes), organism-specific biosystem; Immune System, organism-specific biosystem; Leishmaniasis, organism-specific biosystem;
<b>Function</b>	phosphatidylinositol binding; protein binding; protein dimerization activity;