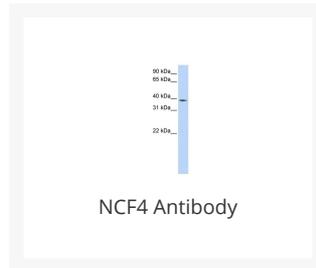




NCF4 Antibody

Cat. No.: 26-092



Ψ Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human
IMMUNOGEN:	Antibody produced in rabbits immunized with a synthetic peptide corresponding a region of human NCF4.
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	NCF4 antibody can be used for detection of NCF4 by ELISA at 1:312500. NCF4 antibody can be used for detection of NCF4 by western blot at 1 µg/mL, and HRP conjugated secondary antibody should be diluted 1:50,000 - 100,000.
POSITIVE CONTROL:	1) Cat. No. 1211 - HepG2 Cell Lysate
PREDICTED MOLECULAR WEIGHT:	39 kDa

Ψ Properties

PURIFICATION:	Antibody is purified by peptide affinity chromatography method.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid

BUFFER:	Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
CONCENTRATION:	batch dependent
STORAGE CONDITIONS:	For short periods of storage (days) store at 4 °C. For longer periods of storage, store NCF4 antibody at -20 °C. As with any antibody avoid repeat freeze-thaw cycles.

Ψ Additional Info

OFFICIAL SYMBOL:	NCF4
ALTERNATE NAMES:	NCF4, MGC3810, NCF, P40PHOX, SH3PXD4
ACCESSION NO.:	NP_038202
PROTEIN GI NO.:	163644267
GENE ID:	4689
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Ψ Background and References

BACKGROUND:	<p>NCF4 is a cytosolic regulatory component of the superoxide-producing phagocyte NADPH-oxidase, a multicomponent enzyme system important for host defense. 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. 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.</p>
REFERENCES:	1) Chen, J., (2007) J. Biol. Chem. 282 (41), 30273-30284.

ANTIBODIES FOR RESEARCH USE ONLY.

For additional information, visit ProSci's [Terms & Conditions Page](#).