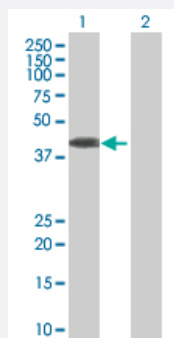


NCF4 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00004689-T01

Size 100 uL

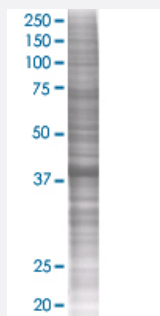
Applications



Western Blot

Lane 1: NCF4 transfected lysate (39 KDa)

Lane 2: Non-transfected lysate.



SDS-PAGE Gel

NCF4 transfected lysate.

Specification

Transfected Cell Line 293T

Plasmid pCMV-NCF4 full-length

Host Human

Theoretical MW (kDa) 37.4

Quality Control Testing Transient overexpression cell lysate was tested with Anti-NCF4 antibody ([H00004689-B01](#)) by Western Blots.
Western Blot
Lane 1: NCF4 transfected lysate (39 KDa)
Lane 2: Non-transfected lysate.
SDS-PAGE Gel
NCF4 transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — NCF4

Entrez GeneID[4689](#)**GeneBank Accession#**[NM_000631](#)**Protein Accession#**[NP_000622](#)**Gene Name**

NCF4

Gene Alias

MGC3810, NCF, P40PHOX, SH3PXD4

Gene Description

neutrophil cytosolic factor 4, 40kDa

Omim ID[601488](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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]

Other Designations

OTTHUMP00000028736|OTTHUMP00000043756|neutrophil NADPH oxidase factor 4|neutrophil cytosol factor 4|neutrophil cytosolic factor 4

Pathway

- [Leukocyte transendothelial migration](#)

Disease

- [Asthma](#)
- [Birth Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [HIV Infections](#)
- [Ileal Diseases](#)
- [Leukemia](#)
- [Lung Diseases](#)
- [Lymphoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mycobacterium Infections](#)
- [Occupational Diseases](#)
- [Pneumonia](#)
- [Sarcoidosis](#)

- [Tuberculosis](#)