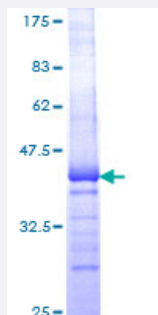


NCF4 (Human) Recombinant Protein (Q01)

Catalog # H00004689-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NCF4 partial ORF (AAH02798, 1 a.a. - 100 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAVAQQLRAESDFEQLPDDVAISANIADIEEKRGFTSHFVFVIEVKTKGGSKYLIRRYRQFHALQS KLEERFGPDSKSSALACTLPTLPAKVYVGVKQE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NCF4

Entrez GeneID [4689](#)

GeneBank Accession# [BC002798](#)

Protein Accession# [AAH02798](#)

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](#)
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- [Meningeal Neoplasms](#)
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- [Mycobacterium Infections](#)
- [Occupational Diseases](#)
- [Pneumonia](#)
- [Sarcoidosis](#)

- [Tuberculosis](#)