

## Product datasheet for TP316094L

### NCF4 (NM\_000631) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human neutrophil cytosolic factor 4, 40kDa (NCF4), transcript variant 1, 1 mg |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC216094 representing NM_000631<br>Red=Cloning site Green=Tags(s)                                   |

MAVAQQLRAESDFEQLPDDVAISANIADIEEKRGFTSHFVIVIEVKTKGGSKYLIYRRYRQFHALQSKLE  
ERFGPDSKSSALACTLPTLPAKVYVGVKQIEAEMRIPALNAYMKSLLSLPVWVLMDEDVRIFYQSPYDS  
EQVPQALRRLRPTRKVKVSPQGNVDRMAAPRAEALFDFTGNSKLELNFKAGDVIFLLSRINKDWLEG  
TVRGATGIFPLSFVKILKDFPEEDDPTNWLRCYYEDTISTIKDIAVEEDLSSTPLLKDLLELTRREFQR  
EDIALNYRDAEGDLVRLSDEDVALMVRQARGLPSQKRLFPWKLHITQKDNYRVYNTMP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 38.9 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:       | Store at -80°C.  |
| Stability:     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |
| RefSeq:        | <a href="#">NP_000622</a>  |
| Locus ID:      | 4689   |



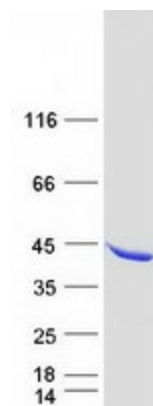
[View online »](#)

|               |                             |
|---------------|-----------------------------|
| UniProt ID:   | <a href="#">Q15080</a>      |
| RefSeq Size:  | 1386                        |
| Cytogenetics: | 22q12.3                     |
| RefSeq ORF:   | 1017                        |
| Synonyms:     | CGD3; NCF; P40PHOX; SH3PXD4 |

**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, Jul 2008]

**Protein Pathways:** Leukocyte transendothelial migration

### Product images:



Coomassie blue staining of purified NCF4 protein (Cat# [TP316094]). The protein was produced from HEK293T cells transfected with NCF4 cDNA clone (Cat# [RC216094]) using MegaTran 2.0 (Cat# [TT210002]).