

## Product datasheet for **TP316094M**

### **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, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216094 representing NM_000631 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAVAQQLRAESDFEQLPDDVAISANIADIEEKRGFTSHFVVFVIEVKTKGGSKYLIYRRYRQFHALQSKLE  
ERFGPDSKSSALACTLPTLPAKVYVGVKQIEAEMRIPALNAYMKSLLSLPVWVLMDEDVRIFYQSPYDS  
EQVPQALRRLRPTRKVKVSPQGNSVDRMAAPRAEALFDFTGNSKLELNFKAGDVIFLLSRINKDWLEG  
TVRGATGIFPLSFVKILKDFPEEDDPTNWLRCYYEDTISTIKDIAVEEDLSSTPLLKDLLELTRREFQR  
EDIALNYRDAEGDLVRLLSDEDVALMVRQARGLPSQKRLFPWKLHITQKDNYRVYNTMP

**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



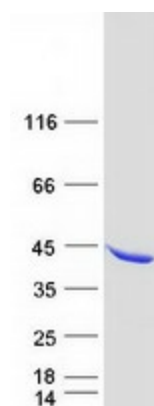
[View online »](#)

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]).