

Product datasheet for TP316094

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, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216094 representing NM_000631 Red=Cloning site Green=Tags(s)

MAVAQQLRAESDFEQLPDDVAISANIADIEEKGFTSHFVFVIEVKTKGGSKYLIYRRYRQFHALQSKLE
 ERFGPDSKSSALACTLPTLPKVVYGVKQEIEMRIPALNAYMKSLLSPVWVLMDEDVRIFFYQSPYDS
 EQVPQALRRRLRPTRKVKSVSPQGNSVDRMAAPRAEALFDTGNSKLELNFKAGDVIFLLSRINKDWLEG
 TVRGATGIFPLSFVKILKDFPEEDDPTNWLRCYYYEDTISTIKDIAVEEDLSSTPLLKDLLELTRREFQR
 EDIALNYRDAEGDLVRLLSDEDVALMVRQARGLP SQKRLFPWKLHITQKDNYRVYNTMP

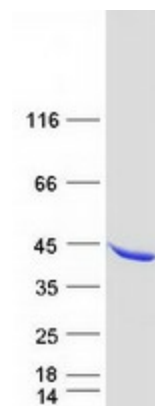
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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:	<u>NP_000622</u>
Locus ID:	4689


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UniProt ID:	Q15080
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]).