

Recombinant Human NCF4 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. NCF4-180H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NCF4 MS Standard C13 and N15-labeled recombinant protein (NP_000622) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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]
Molecular Mass	38.9 kDa
AA Sequence	MAVAQQLRAESDFEQLPDDVAISANIADIEEKRGTSHFVVFVIEVKTKGGSKYLIYRR

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YRQFHALQSKLEERFGPDSKSSALACTLPTLPAKVYVGVKQEIAEMRIPALNAYMKS
 LLSLPVWVLMDEDVRIFFYQSPYDSEQVPQALRRLRPRTKVKSVSPQGNSVDRMA
 APRAEALFDFGTGNSKLELNFKAGDVIFLLSRINKDWLEGTVRGATGIFPLSFVKILKDF
 PEEDDPTNWLRCYYYEDTISTIKDIAVEEDLSSTPLLKDLELTRREFQREDIALNYRD
 AEGDLVRLLSDEDVALMVRQARGLPSQKRLFPWKLHITQKDNRYRVYNTMPTRTRPL
 EQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name NCF4 neutrophil cytosolic factor 4, 40kDa [Homo sapiens (human)]

Official Symbol NCF4

Synonyms NCF4; neutrophil cytosolic factor 4, 40kDa; neutrophil cytosolic factor 4 (40kD); neutrophil cytosol factor 4; neutrophil NADPH oxidase factor 4; p40phox; SH3PXD4; NCF-4; p40-phox; SH3 and PX domain-containing protein 4; NCF; P40PHOX; MGC3810;

Gene ID 4689

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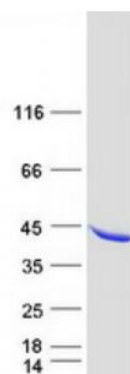
mRNA Refseq [NM_000631](#)

Protein Refseq [NP_000622](#)

MIM [601488](#)

UniProt ID [Q15080](#)

SDS-PAGE



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