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Product datasheet for PH316094

NCF4 (NM_000631) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NCF4 MS Standard C13 and N15-labeled recombinant protein (NP_000622)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216094
Predicted MW:	38.9 kDa
Protein Sequence:	>RC216094 representing NM_000631 Red=Cloning site Green=Tags(s) MAVAQQLRAESDFEQLPDDVAISANIADIEEKRGFTSHFVFVIEVKTKGGSKYLIYRRYRQFHALQSKLE ERFGPDSKSSALACTLPTLPAKVYVGVKQEIAEMRIPALNAYMKSLLSLPVWVLMDEDVRIFFYQSPYDS EQVPQALRRLRPRTRKVKSVSPQGNSVDRMAAPRAEALFDFTGNSKLELNFKAGDVIFLLSRINKDWLEG TVRGATGIFPLSFVKILKDFPEEDDPTNWLRCYYYEDTISTIKDIAVEEDLSSTPLLKDLLELTRREFQR EDIALNYRDAEGDLVRLLSDEDVALMVRQARGLPSQKRLFPWKLHITQKDNYRVYNTMP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000622
RefSeq Size:	1386
RefSeq ORF:	1017
Synonyms:	CGD3; NCF; P40PHOX; SH3PXD4
Locus ID:	4689

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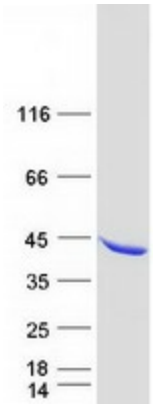
UniProt ID: Q15080

Cytogenetics: 22q12.3

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]).