

Recombinant Human NCF2

Cat. No. NCF2-30174TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human NOXA2/p67phox with N-terminal proprietary tag; 83.86 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	526 amino acids
Description	This gene encodes neutrophil cytosolic factor 2, the 67-kilodalton cytosolic subunit of the multi-protein NADPH oxidase complex found in neutrophils. This oxidase produces a burst of superoxide which is delivered to the lumen of the neutrophil phagosome. Mutations in this gene, as well as in other NADPH oxidase subunits, can result in chronic granulomatous disease, a disease that causes recurrent infections by catalase-positive organisms. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Weight	83.860kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSLVEAISLWNEGVLAADKKDWKGALDAFSAVQDPHSRIC FNIGCMYILKNMTEA EKAFTRSINRDKHLAVAYFQRGML YYQTEKYDLAIKDLKEALIQLRGNQLIDYKILGL QFKLFA CEVLYNIAFMYAKKEEWKKAEEQLALATSMKSEPRHSKID KAMECVWKQ KLYEPVVIPVGRLEFRPNERQVAQLAKKDYLK KATVVASVVDQDSFSGFAPLQPQAA EPPPRPKTPEIFRAL EGEAHRVLFVFPETKEELQVMPGNIVFVLKKGNDNWATV M FNGQKGLVPCNYLEPVELRIHPQQPQEESSPQSDIPAP PSSKAPGRPQLSPGQK QKEEPKEVKLSVPMPYTLKVHYKY TVVMKTQPGLPYSQVRDMVSKKLELRLEQTKL SYRPRDSN ELVPLSEDSMKDAWGQVKNYCLTLWCENTVGDQGFDPDEPK ESEKAD ANNQTTEPQLKKGSQVEALFSYEATQPEDLEFQE GDIILVLSKVNEEWLEGECKGK VGIFPKVFVEDCATTDL E STRREV
Sequence Similarities	Belongs to the NCF2/NOXA1 family. Contains 1 OPR domain. Contains 2 SH3 domains. Contains 3 TPR repeats.

GENE INFORMATION

Gene Name	NCF2 neutrophil cytosolic factor 2 [Homo sapiens]
Official Symbol	NCF2
Synonyms	NCF2; neutrophil cytosolic factor 2; neutrophil cytosolic factor 2 (65kD, chronic granulomatous disease, autosomal 2); neutrophil cytosol factor 2; chronic granulomatous disease; autosomal 2; NADPH oxidase activator 2; NOXA2; p67phox;
Gene ID	4688
mRNA Refseq	NM_000433

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Protein Refseq	NP_000424
MIM	608515
Uniprot ID	P19878
Chromosome Location	1q25
Pathway	Leishmaniasis, organism-specific biosystem; Leishmaniasis, conserved biosystem; Leukocyte transendothelial migration, organism-specific biosystem; Leukocyte transendothelial migration, conserved biosystem; Osteoclast differentiation, organism-specific biosystem;
Function	Rac GTPase binding; electron carrier activity; protein C-terminus binding; protein binding; superoxide-generating NADPH oxidase activity;

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