

Product datasheet for TA321099

NCF1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Recommended Dilution: WB: 1:500-2000

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Fusion protein corresponding to N terminal 230 amino acids of human neutrophil cytosolic

factor 1

Formulation: PBS pH7.3, 0.05% NaN3, 50% glycerol

Concentration: lot specific

Purification: Antigen affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 45 kDa

Gene Name: neutrophil cytosolic factor 1

Database Link: NP 000256

Entrez Gene 17969 MouseEntrez Gene 114553 RatEntrez Gene 653361 Human

P14598



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Background:

The phagocytic NADPH oxidase is a multiprotein enzyme that catalyzes the reduction of oxygen to superoxide in response to pathogenic invasion. The NADPH oxidase consists of 6 subunits, including the membrane-bound p91 phox and p22 phox heterodimers (also known as cytochrome b558), the cytosolic complex of p40phox, p47phox and p67phox, and the small GTPase Rac2. Activation of NADPH oxidase is initiated by cytosolic complex phosphorylation, which induces a conformational change that leads to the translocation of the cytosolic complex to the membrane and formation of an active enzyme with cytochrome b558. Defects in p47phox, often resulting from recombination between p47phox and a nearby homologous pseudogene, cause chronic granulomatous disease. Elevated oxidative stress due to increased myocardial NADPH oxidase activity may be a contributing factor in heart failure.

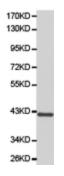
Synonyms: NCF1A; NOXO2; p47phox; SH3PXD1A

Protein Pathways: Chemokine signaling pathway, Fc gamma R-mediated phagocytosis, Leukocyte

transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin

cytoskeleton

Product images:



Predicted band size: 45 kDa. Positive control: T470 cell lysate. Recommended dilution: 1/500-2000. (Gel: 10%SDS-PAGE Lysate: 40 ug Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)