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Product datasheet for TA326975

NCF2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human NCF2
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	neutrophil cytosolic factor 2
Database Link:	NP_000424 Entrez Gene 17970 MouseEntrez Gene 4688 Human P19878

View online »

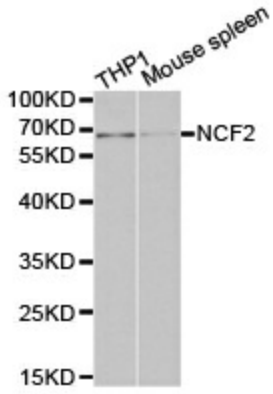
Background: The phagocytic NADPH oxidase is a multiprotein enzyme that catalyzes the reduction of oxygen to superoxide in response to pathogenic invasion. The NADPH oxidase consists of 6 subunits, including the membrane-bound p91 phox and p22 phox heterodimers (also known as cytochrome b558), the cytosolic 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.p67phox appears to coordinate assembly of NAPDH oxidase as it associates with multiple subunits as well as the a subunit of heterotrimeric G proteins. Mutations in the corresponding p67phox gene are also associated with a form of autosomal recessive chronic granulomatous disease .

Synonyms: NCF-2; NOXA2; P67-PHOX; P67PHOX

Protein Families: Druggable Genome

Protein Pathways: Leukocyte transendothelial migration

Product images:



Western blot analysis of THP1 cell and mouse spleen cell lysate using NCF2 antibody.