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Product datasheet for TA392395M

NCF1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000~1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to Human p47-phox.
Specificity:	p47-phox polyclonal antibody detects endogenous levels of p47-phox protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 47 kDa
Gene Name:	neutrophil cytosolic factor 1
Database Link:	Entrez Gene 653361 Human P14598

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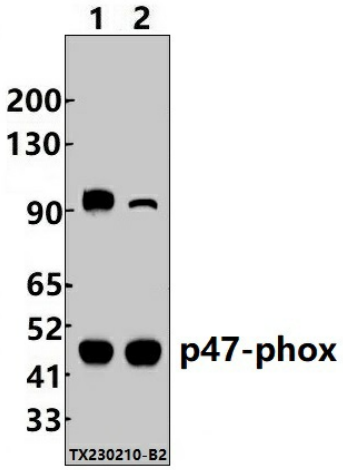
Background: The phagocytic NADPH oxidase is a multiprotein enzyme that catalyzes the reduction of oxygen to superoxide in response to pathogenic invasion. The NADPH oxidase consists of 6 subunits, including the membrane-bound p91 phox and p22 phox heterodimers (also known as cytochrome b558), the cytosolic 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: 47 kDa autosomal chronic granulomatous disease protein; 47 kDa neutrophil oxidase factor; NCF-1; NCF-47K; NCF1; Neutrophil cytosol factor 1; Neutrophil NADPH oxidase factor 1; Nox-organizing protein 2; NOXO2; Nox organizer 2; p47-phox; SH3 and PX domain-containing protein 1A; SH3PXD1A

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of p47-phox pAb at 1:1000 dilution Lane1:THP-1 whole cell lysate(30ug) Lane2:Jurkat whole cell lysate(30ug)