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## anti-NCF4 antibody (AA 1-190)

**Images** 



#### Overview

Quantity:	100 μL
Target:	NCF4
Binding Specificity:	AA 1-190
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NCF4 antibody is un-conjugated
Application:	Western Blotting (WB)

#### Product Datails

Product Details	
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-190 of human NCF4/p40-phox (NP_038202.2).
Sequence:	MAVAQQLRAE SDFEQLPDDV AISANIADIE EKRGFTSHFV FVIEVKTKGG SKYLIYRRYR QFHALQSKLE ERFGPDSKSS ALACTLPTLP AKVYVGVKQE IAEMRIPALN AYMKSLLSLP VWVLMDEDVR IFFYQSPYDS EQVPQALRRL RPRTRKVKSV SPQGNSVDRM AAPRAEALFD FTGNSKLELN
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

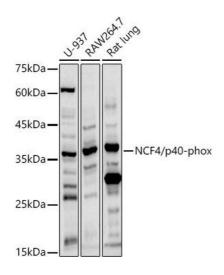
### **Target Details**

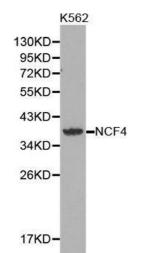
Target:	NCF4
Alternative Name:	NCF4 (NCF4 Products)
Background:	The protein encoded by this gene is a cytosolic regulatory component of the superoxide-
	producing phagocyte NADPH-oxidase, a multicomponent enzyme system important for host
	defense. This protein is preferentially expressed in cells of 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.,NCF4,CGD3,NCF,P40PHOX,SH3PXD4,Cancer,Signal
	Transduction, Cell Biology & Developmental Biology, Endocrine & Metabolism, Mitochondrial
	metabolism,Mitochondrial markers,NCF4
Molecular Weight:	39 kDa
Gene ID:	4689
UniProt:	Q15080
Application Details	
Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

Storage Comment:

Store at -20°C. Avoid freeze / thaw cycles.

#### Validation report #101403 for Immunofluorescence (IF)





#### **Western Blotting**

Image 1. Western blot analysis of extracts of various cell lines, using NCF4/p40-phox antibody (ABIN3022902, ABIN3022903, ABIN3022904, ABIN1513244 and ABIN6219288) at 1:1000 dilution. Secondary antibody: HRP Anti-Rabbit IgG (H+L) (ABIN1684268 Goat ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

#### **Immunofluorescence**

**Image 2.** Immunofluorescence analysis of U20S cell using NCF4 antibody. Blue: DAPI for nuclear staining.

#### **Western Blotting**

**Image 3.** Western blot analysis of extracts of K562 cell lines, using NCF4 antibody.