

## NCF1 Antibody

Catalog No: #32183

Package Size: #32183-1 50ul #32183-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

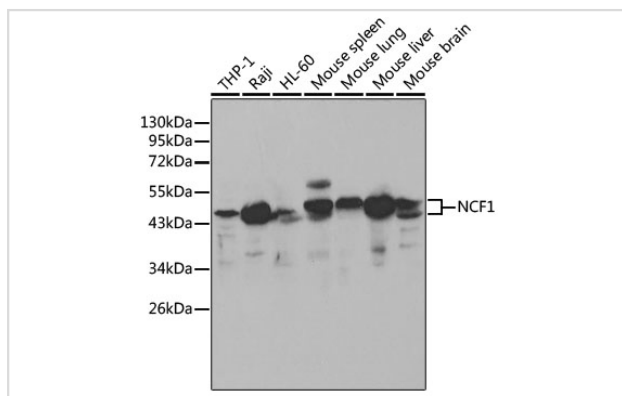
## Description

Product Name	NCF1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total NCF1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human NCF1.
Target Name	NCF1
Other Names	NCF1; FLJ79451; NCF1A; NOXO2; SH3PXD1A
Accession No.	Swiss-Prot:P14598NCBI Gene ID:653361
Uniprot	P14598
GeneID	653361;
SDS-PAGE MW	45KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

WB □ 1:500 - 1:2000IF □ 1:50 - 1:100IP □ 1:50 - 1:100

## Images



Western blot analysis of extracts of various cell lines, using NCF1 at 1:1000 dilution.

## Background

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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 (1). Defects in p47phox, often resulting from recombination between p47phox and a nearby homologous pseudogene, cause chronic granulomatous disease (2-4). Elevated oxidative stress due to increased myocardial NADPH oxidase activity may be a contributing factor in heart failure (5,6).

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Note: This product is for in vitro research use only