

Datasheet for ABIN7268900

anti-NCF4 antibody

4 Images

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Overview

Quantity:	100 µL
Target:	NCF4
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This NCF4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Purpose:	NCF4/p40-phox Rabbit mAb
Immunogen:	A synthesized peptide derived from human NCF4/p40-phox.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	NCF4
Alternative Name:	NCF4 (NCF4 Products)
Background:	The protein encoded by this gene is a cytosolic regulatory component of the superoxide-

Target Details

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, neutrophil cytosol factor 4,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,NCF4

Molecular Weight: 39kDa

Gene ID: 4689

UniProt: [Q15080](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200,IP,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

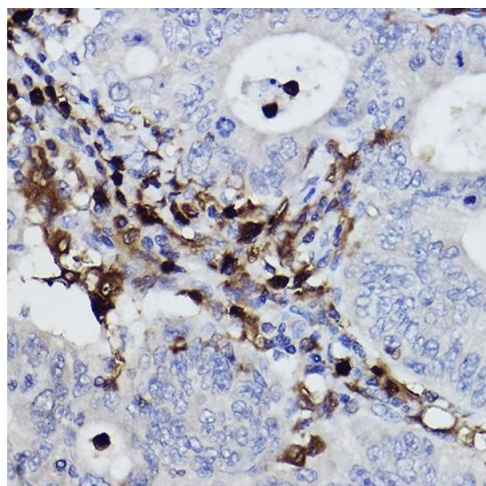
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

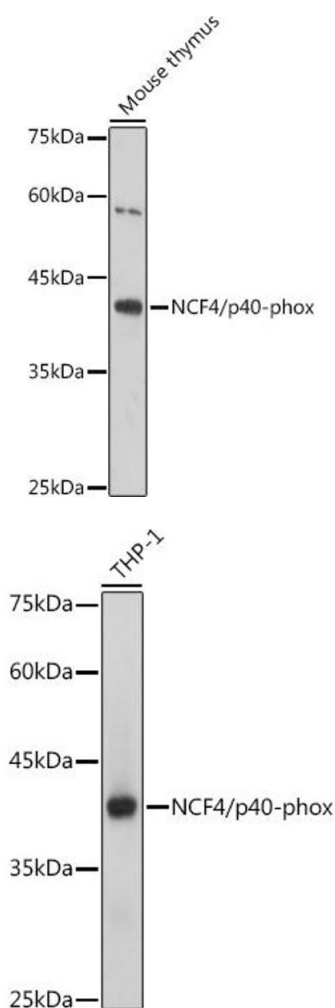
Storage: -20 °C

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



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon carcinoma using NCF4/p40-phox Rabbit mAb (ABIN7268900) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of Mouse thymus, using NCF4/p40-phox antibody (ABIN7268900) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.

Western Blotting

Image 3. Western blot analysis of extracts of THP-1 cells, using NCF4/p40-phox antibody (ABIN7268900) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and 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: 1s.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7268900.