

NCF4/p40-phox Rabbit mAb

Catalog No.: A0935 Recombinant

Basic Information

Observed MW

40kDa

Calculated MW

39kDa

Category

Primary antibody

Applications

ELISA,WB,IHC-P,IP

Cross-Reactivity

Human, Mouse

CloneNo number

ARC2553

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.

Recommended Dilutions

WB 1:500 - 1:1000

IHC-P 1:50 - 1:200

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

Immunogen Information

Gene ID

4689

Swiss Prot

Q15080

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 240-339 of human NCF4/p40-phox (Q15080).

Synonyms

NCF; CGD3; P40PHOX; SH3PXD4; NCF4/p40-phox

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

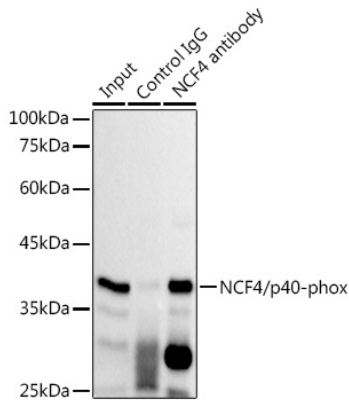
Affinity purification

Storage

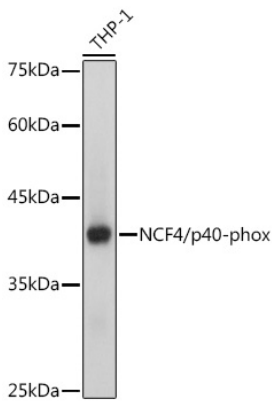
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Immunoprecipitation analysis of 300 µg extracts of THP-1 cells using 3 µg NCF4/p40-phox antibody (A0935). Western blot was performed from the immunoprecipitate using NCF4/p40-phox antibody (A0935) at a dilution of 1:1000.



Western blot analysis of lysates from THP-1 cells, using NCF4/p40-phox Rabbit mAb (A0935) at 1:1000 dilution.

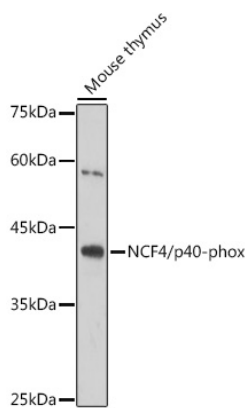
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Western blot analysis of lysates from Mouse thymus, using NCF4/p40-phox Rabbit mAb (A0935) at 1:1000 dilution.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

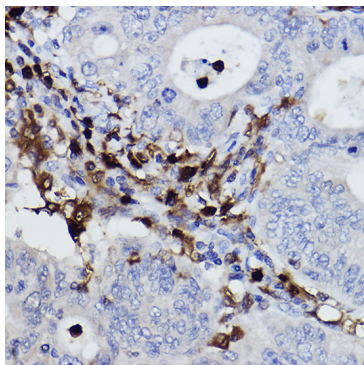
Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 180s.

Validation Data



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma using NCF4/p40-phox Rabbit mAb (A0935) 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.