

ARG64265 anti-NCF4 / P40PHOX antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes NCF4 / P40PHOX
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognise both reported isoforms (NP_000622.2 and NP_038202.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NCF4 / P40PHOX
Species	Human
Immunogen	C-KDFPEEDDPTN
Conjugation	Un-conjugated
Alternate Names	p40phox; SH3PXD4; Neutrophil NADPH oxidase factor 4; Neutrophil cytosol factor 4; P40PHOX; SH3 and PX domain-containing protein 4; p40-phox; NCF; NCF-4

Application Instructions

Application table	Application	Dilution
	IHC-P	2.5 µg/ml
	WB	0.3 - 1 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 4689 Human](#)

[Swiss-port # Q15080 Human](#)

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. [provided by RefSeq, Jul 2008]

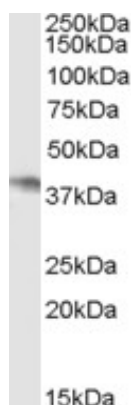
Research Area

Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody

Calculated Mw

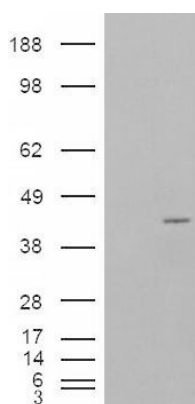
39 kDa

Images



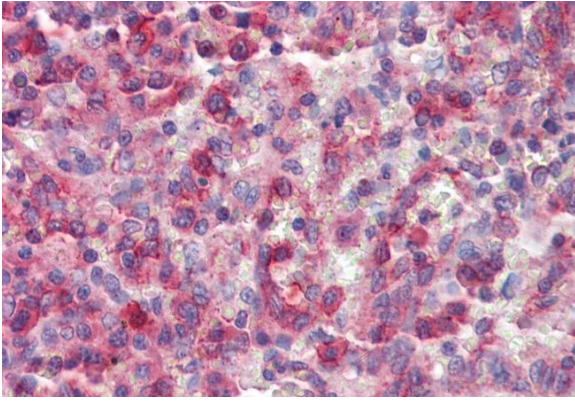
ARG64265 anti-NCF4 / P4OPHOX antibody WB image

Western Blot: Daudi cell lysate (35 µg protein in RIPA buffer) stained with ARG64265 anti-NCF4 / P4OPHOX antibody at 0.5 µg/ml dilution.



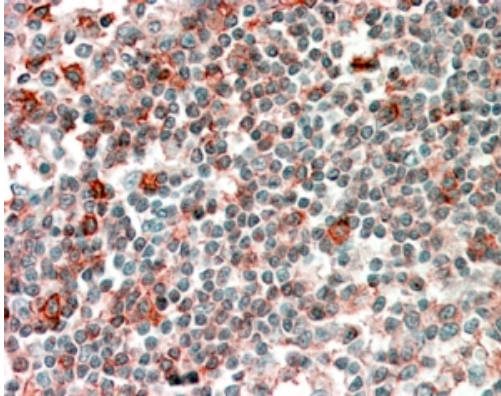
ARG64265 anti-NCF4 / P4OPHOX antibody WB image

Western Blot: 1). Mock transfection; 2) P4OPHOX (RC201191) expressing plasmid transfected HEK293 cell lysate stained with ARG64265 anti-NCF4 / P4OPHOX antibody



ARG64265 anti-NCF4 / P40PHOX antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human spleen tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64265 anti-NCF4 / P40PHOX antibody at 2.5 µg/ml dilution followed by AP-staining.



ARG64265 anti-NCF4 / P40PHOX antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Tonsil. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG64265 anti-NCF4 / P40PHOX antibody at 2.5 µg/ml dilution followed by AP-staining.