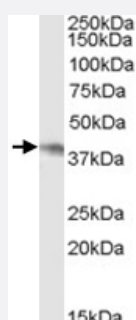


NCF4 polyclonal antibody

Catalog # PAB7315

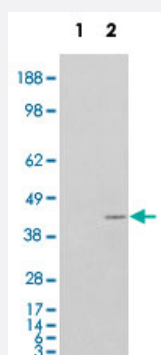
Size 100 ug

Applications



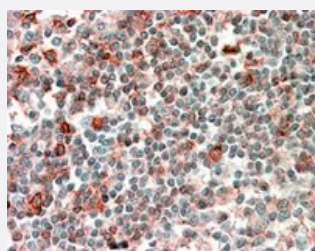
Western Blot (Cell lysate)

NCF4 polyclonal antibody (Cat # PAB7315) (0.5 ug/mL) staining of Daudi cell lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blot (Transfected lysate)

293 overexpressing NCF4 and probed with NCF4 polyclonal antibody (Cat # PAB7315) (mock transfection in first lane), tested by Origene.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

NCF4 polyclonal antibody (Cat # PAB7315) (2.5 ug/mL) staining of paraffin embedded human tonsil. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description

Goat polyclonal antibody raised against synthetic peptide of NCF4.

Immunogen	A synthetic peptide corresponding to human NCF4.
Sequence	C-KDFPEEDDPTN
Host	Goat
Theoretical MW (kDa)	39.0, 38.8
Reactivity	Human
Specificity	This antibody is expected to recognize both reported isoforms (NP_000622.2 and NP_0.38202.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:32000) Western blot (0.3-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

NCF4 polyclonal antibody (Cat # PAB7315) (0.5 ug/mL) staining of Daudi cell lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Western Blot (Transfected lysate)

293 overexpressing NCF4 and probed with NCF4 polyclonal antibody (Cat # PAB7315) (mock transfection in first lane), tested by Origene.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — NCF4

Entrez GeneID	4689
Protein Accession#	NP_000622.2;NP_038202.1
Gene Name	NCF4
Gene Alias	MGC3810, NCF, P40PHOX, SH3PXD4
Gene Description	neutrophil cytosolic factor 4, 40kDa
Omim ID	601488
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	OTTHUMP00000028736 OTTHUMP00000043756 neutrophil NADPH oxidase factor 4 neutrophil cytosol factor 4 neutrophil cytosolic factor 4

Publication Reference

- [Genome-wide association study identifies new susceptibility loci for Crohn disease and implicates autophagy in disease pathogenesis.](#)

Rioux JD, Xavier RJ, Taylor KD, Silverberg MS, Goyette P, Huett A, Green T, Kuballa P, Barmada MM, Datta LW, Shugart YY, Griffiths AM, Targan SR, Ippoliti AF, Bernard EJ, Mei L, Nicolae DL, Regueiro M, Schumm LP, Steinhardt AH, Rotter JI, Duerr RH, Cho JH, Daly MJ, Brant SR.

Nature Genetics 2007 May; 39(5):596.

Pathway

- [Leukocyte transendothelial migration](#)

Disease

- [Asthma](#)
- [Birth Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
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- [Genetic Predisposition to Disease](#)
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- [Occupational Diseases](#)
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