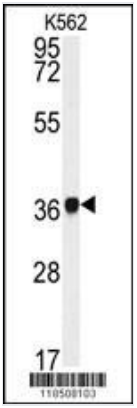
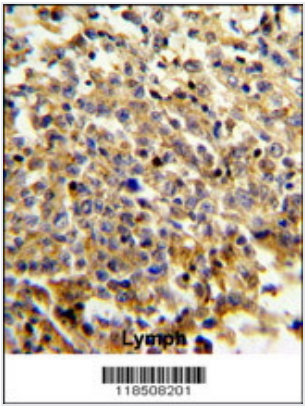
p40-phox Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

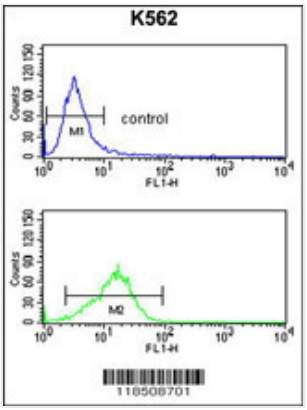
Product Name	p40 phox (p40-phox), Polyclonal Antibody
Full Product Name	p40 phox, CT (p40phox, p40-phox, Neutrophil Cytosol Factor 4, Neutrophil Cytosolic Factor 4, NCF4, NCF-4, MGC3810, Neutrophil NADPH Oxidase Factor 4, SH3 and PX Domain-containing Protein 4, SH3PXD4) (APC)
Product Gene Name	anti-p40-phox antibody
Product Synonym Names	Neutrophil Cytosolic Factor 4; 40kDa
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human NCF4.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	41.1 kDa (359aa) confirmed by MALDI-TOF
OMIM	601488
3D Structure	ModBase 3D Structure for Q15080
Immunogen	Synthetic peptide selected from the C-terminal region of human NCF4 (KLH).
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-p40-phox antibody	Antibodies; Enzymes; Oxidase
Applications Tested/Suitable for anti-p40-phox antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-p40-phox antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-p40-phox antibody	MBS6491395 is an antibody targeting p40-phox. Also known as p40 phox, CT (p40phox, p40-phox, Neutrophil Cytosol Factor 4, Neutrophil Cytosolic Factor 4, NCF4, NCF-4, MGC3810, Neutrophil NADPH Oxidase Factor 4, SH3 and PX Domain-containing Protein 4, SH3PXD4) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-p40-phox antibody	1. Glas, J., Seiderer, J. Am. J. Gastroenterol. 104(3), 665-672 (2009). 2. Honbou, K. Seikagaku 80(8), 743-747 (2008). 3. Dusi, S., Donini, M. Biochem. J. 314(PT 2), 409-412 (1996). 4. Leto, T.L. Proc. Natl. Acad. Sci. USA 91(22), 10650-10654 (1994).
Other Notes	Small volumes of anti-p40-phox antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-p40-phox antibody
Western blot analysis of NCF4 antibody (C-term) in K562 cell line lysates (35ug/lane). NCF4 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-p40-phox antibody
Formalin-fixed and paraffin-embedded human lymphoma reacted with NCF4 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-p40-phox antibody
NCF4 Antibody (C-term) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for p40-phox. It may not necessarily be applicable to this product.

NCBI GI #	47519798
NCBI GeneID	4689
NCBI Accession #	NP_000622
UniProt Primary Accession #	Q15080
UniProt Secondary Accession #	O60808; Q86U56; Q9BU98; Q9NP45; A8K4F9
UniProt Related Accession #	Q15080
GenBank Nucleotide #	NM_000631.4
NCBI Official Full Name	neutrophil cytosol factor 4 isoform 1
NCBI Official Synonym Full Names	neutrophil cytosolic factor 4
NCBI Official Symbol	NCF4
NCBI Official Synonym Symbols	NCF; CGD3; P40PHOX; SH3PXD4
UniProt Protein Name	Neutrophil cytosol factor 4
UniProt Synonym Protein Names	Neutrophil NADPH oxidase factor 4; SH3 and PX domain-containing protein 4; p40-phox

Protein Family	Neutrophil cytosol factor
UniProt Gene Name	NCF4
UniProt Synonym Gene Names	SH3PXD4; NCF-4; p40phox
UniProt Entry Name	NCF4_HUMAN
NCBI Protein Information	neutrophil cytosol factor 4
NCBI Summary for p40-phox	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]
UniProt Comments for p40-phox	p40phox: a component of the NADPH-oxidase, a multicomponent enzyme system responsible for the oxidative burst. Upon neutrophil stimulation, this protein and other cytosolic elements are sent to the cell membrane from the cytosol to form a complex which produces phagocytic oxygen radicals. Responsible for the downregulation of NADPH-oxidase. Alternative splicing has been observed. Protein type: Oxidoreductase Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: membrane; endosome membrane; cytosol; NADPH oxidase complex Molecular Function: protein dimerization activity; protein binding; superoxide-generating NADPH oxidase activator activity; phosphatidylinositol 3-phosphate binding Biological Process: positive regulation of catalytic activity; interaction with host; antigen processing and presentation of peptide antigen via MHC class I; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; antigen processing and presentation of exogenous peptide antigen via MHC class I; immune response; vascular endothelial growth factor receptor signaling pathway Disease: Granulomatous Disease, Chronic, Autosomal Recessive, Cytochrome B-positive, Type Iii
Research Articles on p40-phox	**1.** Phosphoinositol 3-phosphate regulates reactive oxygen species production by maintaining p40phox and p67phox at the phagosomal membrane.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-p40-phox-human-antibody/p40-phox/6491395