SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-phospho-NCF1 (Ser359)antibody

Catalog Number: SL11445R

FOR RESEARCH USE ONLY

[DATASHEET]

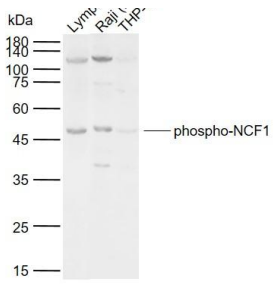
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	phospho-NCF1 (Ser359)
Immunogen:	KLH conjugated synthesised phosphopeptide derived from human NCF1 around the phosphorylation site of Ser359: QR(p-S)K
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Rat
Predicted MW.:	45kDa
Subcellular Location:	cytoplasmic
Background:	The heredity chronic granulomatous disease (CGF) has been linked to mutations in p47-phox and p67-phox. The cytosolic proteins p47-phox and p67-phox, also designated neutrophil cytosol factor (NCF)1 and NCF2, respectively, are required for activation of the superoxide-producing NADPH oxidase in neutrophils and other phagocytic cells. During activation of the NADPH oxidase, p47-phox and p67-phox migrate to the plasma membrane where they associate with cytochrome b558 and the small G protein Rac to form the functional enzyme complex. Both p47-phox and p67-phox contain two Src homology 3 (SH3) domains. The C-terminal SH3 domain of p67-phox has been shown to interact with the proline-rich domain of p47-phox, suggesting that p47-phox may faciliate the transport of p67-phox to the membrane. **Function:** NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide

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	production). **Subunit:** Interacts with NOXA1. Interacts with ADAM15. Interacts with TRAF4. Interacts with FASLG. **Subcellular Location:** Cytoplasm. **Post-translational modifications:** Phosphorylated by PRKCD; phosphorylation induces activation of NCF1 and NADPH oxidase activity. DISEASE: Defects in NCF1 are the cause of chronic granulomatous disease autosomal recessive cytochrome-b-positive type 1 (CGD1) [MIM:233700]. Chronic granulomatous disease is a genetically heterogeneous disorder characterized by the inability of neutrophils and phagocytes to kill microbes that they have ingested. Patients suffer from life-threatening bacterial/fungal infections. **Similarity:** Contains 1 PX (phox homology) domain. Contains 2 SH3 domains. **Database links:** **Entrez Gene:** 281345 Cow **Entrez Gene:** 653361 Human **Entrez Gene:** 17969 Mouse **Entrez Gene:** 100134857 Pig **Entrez Gene:** 100008803 Rabbit **Entrez Gene:** 114553 Rat Omim: 608512 Human **SwissProt:** O77774 Cow **SwissProt:** P14598 Human **SwissProt:** Q09014 Mouse **Unigene:** 647047 Human **Unigene:** 655201 Human **Unigene:** 425296 Mouse **Unigene:** 38575 Rat

[VALIDATION IMAGES]



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Sample:
Lane 1: Rat Lymph node tissue lysates
Lane 2: Human Raji cell lysates
Lane 3: Human THP-1 cell lysates
Primary: Anti- phospho-NCF1 (Ser359) (SL11445R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 45 kDa
Observed band size: 47 kDa

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