

## p47 phox ELISA Kit | NCF1 elisa kit

p47 phox (Phospho-Ser370) Phospho Sandwich ELISA Kit

CATALOG #  
**AAA318634**

REACTIVITY  
**Human, Mouse, Rat**

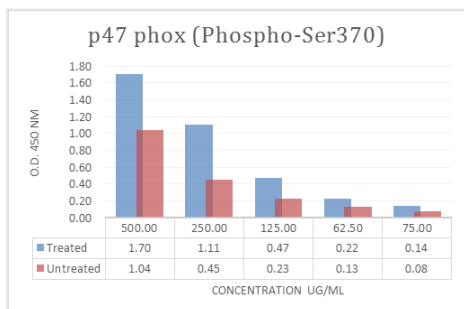
### PRODUCT SYNONYMS

p47 phox; p47 phox (Phospho-Ser370) Phospho Sandwich ELISA Kit; 47 kDa autosomal chronic granulomatous disease protein; 47 kDa neutrophil oxidase factor; NCF-1; NCF-47K; NCF1; Neutrophil cytosol factor 1; Neutrophil cytosolic factor 1; Neutrophil NADPH oxidase factor 1; P47 phox; p47-phox; NCF1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specificity             | The p47 phox (Phospho-Ser370) Phospho Sandwich ELISA Kit is a convenient, lysate- free, high throughput and sensitive assay kit that can detect p47 phox protein phosphorylation and expression profile in cell lysates. The kit can be used for measuring the relative amounts of phosphorylated p47 phox in cultured cells as well as screening for the effects that various treatments, inhibitors (ie. siRNA or chemicals), or activators have on p47 phox phosphorylation. |
| Sequence Length         | 390                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Preparation and Storage | Store entire kit at 4 degree C until use. Kit expiration is 3 months from date of shipment.                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



#### Application Data

HeLa cells were grown to 90% confluency and stimulated with 30 ng/mL TNF-

## ADDITIONAL INFORMATION

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|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for NCF1 elisa kit | Principle of the Assay: The Phospho Sandwich p47 phox (Phospho-Ser370) ELISA Kit contains the components necessary for semi-quantitative determination of p47 phox (Phospho-Ser370) concentrations within experimental cell lysate samples. This particular immunoassay utilizes the traditional "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope p47 phox (Phospho-Ser370) while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer where data analysis may begin. |
| Product Categories/Family for NCF1 elisa kit   | Phospho Sandwich ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## NCBI AND UNIPROT INFORMATION

|                                  |                                 |
|----------------------------------|---------------------------------|
| NCBI GI #                        | 115298672                       |
| NCBI GeneID                      | 653361                          |
| NCBI Accession #                 | NP_000256.3                     |
| NCBI GenBank Nucleotide #        | NP_000256.3                     |
| UniProt Accession #              | P14598                          |
| NCBI Official Full Name          | neutrophil cytosol factor 1     |
| NCBI Official Synonym Full Names | neutrophil cytosolic factor 1   |
| NCBI Official Symbol             | NCF1                            |
| NCBI Official Synonym Symbols    | NCF1A; NOXO2; p47phox; SH3PXD1A |
| NCBI Protein Information         | neutrophil cytosol factor 1     |
| UniProt Protein Name             | Neutrophil cytosol factor 1     |
| UniProt Gene Name                | <b>NCF1</b>                     |
| UniProt Synonym Gene Names       | NOXO2; SH3PXD1A; NCF-1          |
| UniProt Entry Name               | NCF1_HUMAN                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ncf1-human-mouse-rat-elisa-kits/p47-phox/318634>