**Product Name: p47-phox Rabbit Polyclonal Antibody**
**Catalog #: APRab15631**

## Summary

| | |
|---|---|
| **Production Name** | p47-phox Rabbit Polyclonal Antibody |
| **Description** | Rabbit Polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | IHC,WB,ELISA |
| **Reactivity** | Human,Mouse,Rat |

## Performance

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|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Immunogen

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|---|---|
| **Gene Name** | NCF1 |
| **Alternative Names** | NCF1; NOXO2; SH3PXD1A; Neutrophil cytosol factor 1; NCF-1; 47 kDa autosomal chronic granulomatous disease protein; 47 kDa neutrophil oxidase factor; NCF-47K; Neutrophil NADPH oxidase factor 1; Nox organizer 2; Nox-organizing protein 2; SH3 |
| **Gene ID** | 653361.0 |
| **SwissProt ID** | P14598.The antiserum was produced against synthesized peptide derived from human p47 phox. AA range:341-390 |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. |
| **Molecular Weight** | 44kD |

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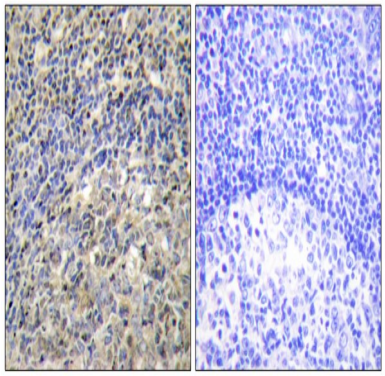
## Background

The protein encoded by this gene is a 47 kDa cytosolic subunit of neutrophil NADPH oxidase. This oxidase is a multicomponent enzyme that is activated to produce superoxide anion. Mutations in this gene have been associated with chronic granulomatous disease. [provided by RefSeq, Jul 2008],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.,function:NCF2, NCF1, and a membrane bound cytochrome b558 are required for activation of the latent NADPH oxidase (necessary for superoxide production).,online information:NCF1 deficiency database,similarity:Contains 1 PX (phox homology) domain.,similarity:Contains 2 SH3 domains.,subunit:Interacts with NOXA1.,

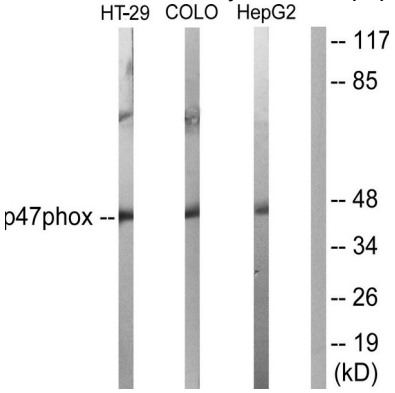
## Research Area

Chemokine;Fc gamma R-mediated phagocytosis;Leukocyte transendothelial migration;

## Image Data

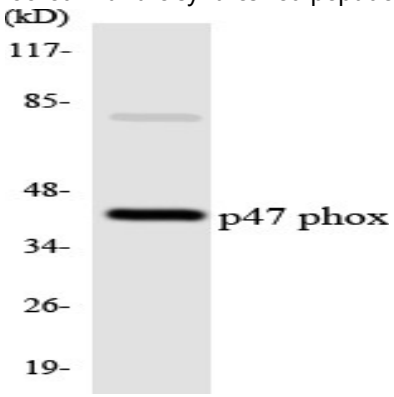


Immunohistochemistry analysis of paraffin-embedded human tonsil tissue, using p47 phox Antibody. The picture on the right is blocked with the synthesized peptide.

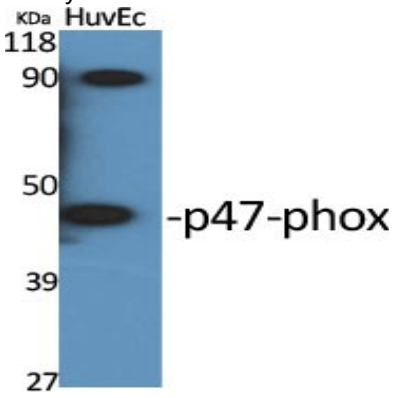



Western blot analysis of lysates from HT-29, COLO205, and HepG2 cells, , using p47 phox Antibody. The lane on the right is

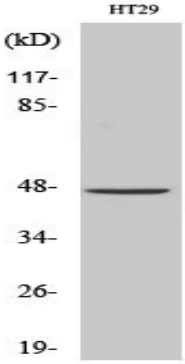
blocked with the synthesized peptide.




Western blot analysis of the lysates from COLO205 cells using p47 phox antibody.




Western Blot analysis of various cells using p47-phox Polyclonal Antibody




Western Blot analysis of COLO205 cells using p47-phox Polyclonal Antibody

## Note

For research use only.