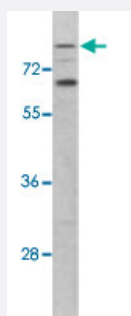


# TLR2 polyclonal antibody

Catalog # PAB3542

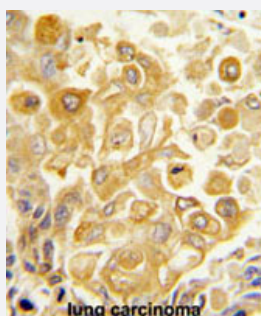
Size 400 uL

## Applications



### Western Blot (Cell lysate)

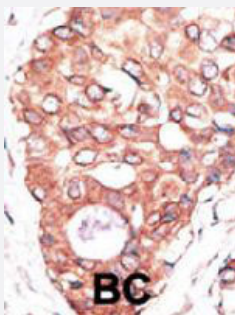
Western blot analysis of K-562 cell lysate (35 ug/lane) with TLR2 polyclonal antibody (Cat # PAB3542).



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

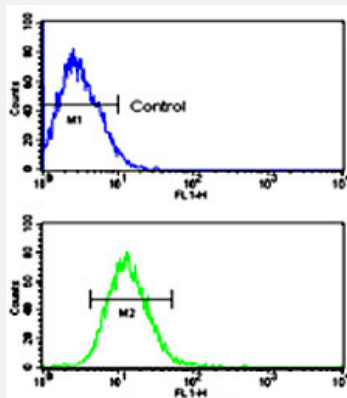
Formalin-fixed and paraffin-embedded human lung carcinoma reacted with TLR2 polyclonal antibody (Cat # PAB3542), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



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

Formalin-fixed and paraffin-embedded human cancer tissue reacted with TLR2 polyclonal antibody (Cat # PAB3542), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.



## Flow Cytometry

Flow cytometric analysis of CEM cells using TLR2 polyclonal antibody (Cat # PAB3542)(bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Specification

|                            |                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit polyclonal antibody raised against synthetic peptide of TLR2.                                                                                                                                      |
| <b>Immunogen</b>           | A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human TLR2.                                                                                                                      |
| <b>Host</b>                | Rabbit                                                                                                                                                                                                    |
| <b>Reactivity</b>          | Human                                                                                                                                                                                                     |
| <b>Form</b>                | Liquid                                                                                                                                                                                                    |
| <b>Purification</b>        | Protein G purification                                                                                                                                                                                    |
| <b>Recommend Usage</b>     | Flow Cytometry (1:10-50)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50)<br>Western Blot (1:1000)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS (0.09% sodium azide)                                                                                                                                                                               |
| <b>Storage Instruction</b> | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                    |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                    |

## Applications

### ● Western Blot (Cell lysate)

Western blot analysis of K-562 cell lysate (35 ug/lane) with TLR2 polyclonal antibody (Cat # PAB3542).

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Flow cytometric analysis of CEM cells using TLR2 polyclonal antibody (Cat # PAB3542)(bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Gene Info — TLR2

Entrez GeneID [7097](#)

Protein Accession# [O60603](#)

Gene Name TLR2

Gene Alias CD282, TIL4

Gene Description toll-like receptor 2

Omim ID [114500](#) [246300](#) [603028](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This gene is expressed most abundantly in peripheral blood leukocytes, and mediates host response to Gram-positive bacteria and yeast via stimulation of NF-kappaB. [provided by RefSeq]

**Other Designations** toll/interleukin 1 receptor-like 4

## Publication Reference

- [Importance of extra- and intracellular domains of TLR1 and TLR2 in NFkappa B signaling.](#)

Sandor F, Latz E, Re F, Mandell L, Repik G, Golenbock DT, Espevik T, Kurt-Jones EA, Finberg RW.

International Journal of Cell Biology 2003 Sep; 162(6):1099.

Application: ELISA, Func, Human, HEK 293 cells, Human PBMCs

- [Cellular recognition of tri-/di-palmitoylated peptides is independent from a domain encompassing the N-terminal seven leucine-rich repeat \(LRR\)/LRR-like motifs of TLR2.](#)

Meng G, Grabiec A, Vallon M, Ebe B, Hampel S, Bessler W, Wagner H, Kirschning CJ.

The Journal of Biological Chemistry 2003 Jul; 278(41):39822.

- [Airway epithelia regulate expression of human beta-defensin 2 through Toll-like receptor 2.](#)

Wang X, Zhang Z, Louboutin JP, Moser C, Weiner DJ, Wilson JM.

FASEB Journal 2003 Jul; 17(12):1727.

Application: IF, IHC-Fr, WB-Tr, Human, HEK 293 cells, Human lung tissues

## Pathway

- [Toll-like receptor signaling pathway](#)

## Disease

- [Acute Disease](#)
- [Aggressive Periodontitis](#)
- [Amyloidosis](#)
- [Arthritis](#)
- [Aspergillosis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Bacteremia](#)
- [Bacterial Infections](#)
- [Bacteriuria](#)
- [Behcet Syndrome](#)

- [Birth Weight](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiectasis](#)
- [Bronchiolitis](#)
- [Bronchiolitis Obliterans](#)
- [Calcinosis](#)
- [Candidiasis](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Chagas Cardiomyopathy](#)
- [Chlamydia Infections](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Chronic Periodontitis](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Communicable Diseases](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Restenosis](#)
- [Critical Illness](#)
- [Crohn Disease](#)
- [Cystitis](#)
- [Cytomegalovirus Infections](#)

- [Dental Plaque](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Duodenal Ulcer](#)
- [Eczema](#)
- [Edema](#)
- [Elephantiasis](#)
- [Epidermal Necrolysis](#)
- [Familial Mediterranean fever](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Filariasis](#)
- [Food Hypersensitivity](#)
- [Gallbladder Neoplasms](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Genital Diseases](#)
- [Gingival Hemorrhage](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Gram-Negative Bacterial Infections](#)
- [Head and Neck Neoplasms](#)

- [Helicobacter Infections](#)
- [Hematologic Diseases](#)
- [Hematologic Neoplasms](#)
- [Hepatitis C](#)
- [Herpes Genitalis](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Hypersensitivity](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Insulin Resistance](#)
- [Leishmaniasis](#)
- [Leprosy](#)
- [Leukemia](#)
- [Low Tension Glaucoma](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lyme Disease](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malaria](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)

- [Meningitis](#)
- [Meningococcal Infections](#)
- [Metaplasia](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Musculoskeletal Diseases](#)
- [Mycobacterium avium-intracellulare Infection](#)
- [Mycobacterium Infections](#)
- [Mycoses](#)
- [Myocardial Infarction](#)
- [Nasal Polyps](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Nephritis](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Otitis Media](#)
- [Pancreatitis](#)
- [Papillomavirus Infections](#)
- [Parasitemia](#)
- [Peptic Ulcer](#)
- [Periodontal Diseases](#)
- [Periodontitis](#)
- [Pneumococcal Infections](#)
- [Pneumonia](#)

- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Puerperal Disorders](#)
- [Pulmonary Disease](#)
- [Purpura](#)
- [Pyelonephritis](#)
- [Q Fever](#)
- [Recurrence](#)
- [Respiratory Sounds](#)
- [Respiratory Syncytial Virus Infections](#)
- [Respiratory Tract Infections](#)
- [Rheumatic Fever](#)
- [Rheumatic Heart Disease](#)
- [Rhinitis](#)
- [Salmonella Infections](#)
- [Sarcoidosis](#)
- [Sepsis](#)
- [Shock](#)
- [Sinusitis](#)
- [Skin Diseases](#)
- [Spondylitis](#)
- [Staphylococcal Infections](#)
- [Staphylococcal Skin Infections](#)

- [Stevens-Johnson Syndrome](#)
- [Stomach Neoplasms](#)
- [Streptococcal Infections](#)
- [Systemic Inflammatory Response Syndrome](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Tract Infections](#)
- [Uterine Cervical Neoplasms](#)
- [Vaginosis](#)
- [Virus Diseases](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)