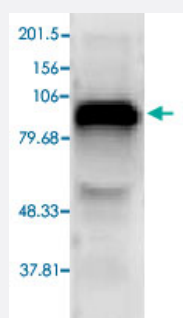


TLR4 polyclonal antibody

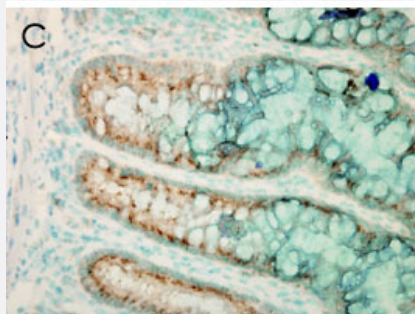
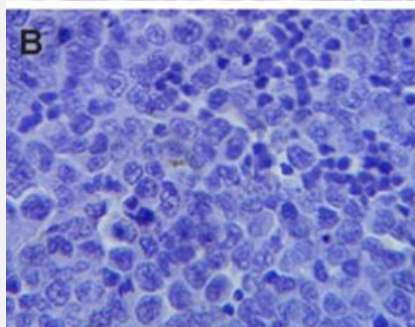
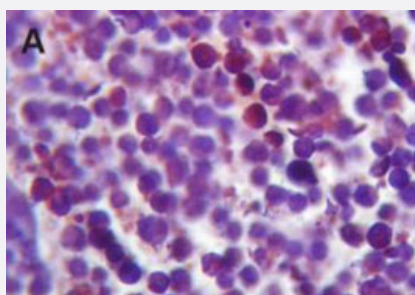
Catalog # PAB15432 Size 100 ug

Applications



Western Blot (Recombinant protein)

Western blot analysis of recombinant TLR4 protein with TLR4 polyclonal antibody (Cat # PAB15432).



Immunohistochemistry

Immunochemical staining of mouse spleen tissue (A, B) and mouse colitis colon (C) with TLR4 polyclonal antibody (Cat # PAB15432).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TLR4.
Immunogen	A synthetic peptide corresponding to amino acids 420-435 of human TLR4.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	Detects ~75-80KDa when tested against partial recombinant mouse TLR4 (extra-cellular portion plus His-tag).
Form	Liquid
Recommend Usage	Western Blot (1-3 ug/mL) Immunohistochemistry (1:50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% BSA, 0.09% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Recombinant protein)

Western blot analysis of recombinant TLR4 protein with TLR4 polyclonal antibody (Cat # PAB15432).

- Immunohistochemistry

Immunochemical staining of mouse spleen tissue (A, B) and mouse colitis colon (C) with TLR4 polyclonal antibody (Cat # PAB15432).

- Immunocytochemistry

- Flow Cytometry

Gene Info — TLR4

Entrez GeneID	7099
Gene Name	TLR4
Gene Alias	ARMD10, CD284, TOLL, hToll
Gene Description	toll-like receptor 4
Omim ID	603030
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 receptor is most abundantly expressed in placenta, and in myelomonocytic subpopulation of the leukocytes. It has been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness. Also, several transcript variants of this gene have been found, but the protein coding potential of most of them is uncertain. [provided by RefSeq]
Other Designations	OTTHUMP00000022807 homolog of Drosophila toll

Publication Reference

- [Expression of toll-like receptor 2 and 4 is increased in the respiratory epithelial cells of chronic idiopathic interstitial pneumonia patients.](#)

Go H, Koh J, Kim HS, Jeon KY, Chung DH.
Respiratory Medicine 2014 May; 108(5):783.

Application: IHC-P, Human, Lung
- [Physical contact between lipopolysaccharide and toll-like receptor 4 revealed by genetic complementation.](#)

Poltorak A, Ricciardi-Castagnoli P, Citterio S, Beutler B.
PNAS 2000 Feb; 97(5):2163.
- [Differential roles of TLR2 and TLR4 in recognition of gram-negative and gram-positive bacterial cell wall components.](#)

Takeuchi O, Hoshino K, Kawai T, Sanjo H, Takada H, Ogawa T, Takeda K, Akira S.
Immunity 1999 Oct; 11(4):443.

- [The human toll signaling pathway: divergence of nuclear factor kappaB and JNK/SAPK activation upstream of tumor necrosis factor receptor-associated factor 6 \(TRAF6\).](#)

Muzio M, Natoli G, Sacconi S, Levrero M, Mantovani A.

The Journal of Experimental Medicine 1998 Jun; 187(12):2097.

Pathway

- [Pathogenic Escherichia coli infection - EHEC](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Abortion](#)
- [Achlorhydria](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Aggressive Periodontitis](#)
- [AIDS-Related Opportunistic Infections](#)
- [Airway Obstruction](#)
- [Albuminuria](#)
- [Alveolar Bone Loss](#)
- [Alzheimer disease](#)
- [Amyloidosis](#)
- [Anemia](#)
- [Angina Pectoris](#)
- [Anus Diseases](#)
- [Aortic Diseases](#)
- [Appendicitis](#)

- [Arteriosclerosis](#)
- [Arthritis](#)
- [Arthropathy](#)
- [Aspergillosis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Autoimmune Diseases](#)
- [Bacteremia](#)
- [Bacterial Infections](#)
- [Bacteriuria](#)
- [Behcet Syndrome](#)
- [Birth Weight](#)
- [Boutonneuse Fever](#)
- [Brain Infarction](#)
- [Brain Ischemia](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Bronchiolitis Obliterans](#)
- [Brucellosis](#)
- [Burns](#)
- [Calcinosis](#)
- [Campylobacter Infections](#)
- [Candidiasis](#)
- [Carcinoma](#)

- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Carotid Stenosis](#)
- [Celiac Disease](#)
- [Cellulitis](#)
- [Cerebral Palsy](#)
- [Cerebrovascular Accident](#)
- [Chagas Cardiomyopathy](#)
- [Chlamydia Infections](#)
- [Cholangitis](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Chronic Periodontitis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Conjunctivitis](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Restenosis](#)
- [Coronary Stenosis](#)
- [Critical Illness](#)
- [Crohn Disease](#)

- [Cross Infection](#)
- [Cystic fibrosis](#)
- [Cystitis](#)
- [Cytomegalovirus Infections](#)
- [Death](#)
- [Dementia](#)
- [Dental Plaque](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Ductus Arteriosus](#)
- [Duodenal Ulcer](#)
- [Eczema](#)
- [Edema](#)
- [Elephantiasis](#)
- [Endotoxemia](#)
- [Enterocolitis](#)
- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Fallopian Tube Diseases](#)
- [Familial Mediterranean fever](#)
- [Fetal Diseases](#)

- [Fetal Membranes](#)
- [Food Hypersensitivity](#)
- [Fractures](#)
- [Fungemia](#)
- [Gallbladder Neoplasms](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Giant Cell Arteritis](#)
- [Gingival Hemorrhage](#)
- [Glaucoma](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Graft vs Host Disease](#)
- [Gram-Negative Bacterial Infections](#)
- [Graves Ophthalmopathy](#)
- [Guillain-Barre Syndrome](#)
- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)
- [HELLP Syndrome](#)
- [Hematologic Diseases](#)
- [Hematologic Neoplasms](#)
- [Hemochromatosis](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)

- [Humeral Fractures](#)
- [Hypercholesterolemia](#)
- [Hyperlipoproteinemia Type II](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Infant](#)
- [Infection](#)
- [Infertility](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Insulin Resistance](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Leprosy](#)
- [Leukemia](#)
- [Lipodystrophy](#)
- [Liver Cirrhosis](#)
- [Liver Diseases](#)
- [Lung Diseases](#)
- [Lupus Erythematosus](#)
- [Lymphadenitis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Macular Degeneration](#)
- [Malaria](#)

- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Meningococcal Infections](#)
- [Metabolic Syndrome X](#)
- [Metaplasia](#)
- [Multiple Myeloma](#)
- [Multiple Organ Failure](#)
- [Multiple Sclerosis](#)
- [Musculoskeletal Diseases](#)
- [Mycobacterium Infections](#)
- [Mycoses](#)
- [Myocardial Infarction](#)
- [Nasopharyngeal Neoplasms](#)
- [Necrosis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Nephritis](#)
- [Neurocysticercosis](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Opportunistic Infections](#)
- [Otitis Media](#)
- [Otosclerosis](#)
- [Pancreatitis](#)

- [Papillomavirus Infections](#)
- [Parasitemia](#)
- [Periodontal Attachment Loss](#)
- [Periodontal Diseases](#)
- [Periodontal Pocket](#)
- [Periodontitis](#)
- [Peripheral Vascular Diseases](#)
- [Pneumococcal Infections](#)
- [Pneumonia](#)
- [Polymyalgia Rheumatica](#)
- [Postoperative Complications](#)
- [Pouchitis](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Puerperal Disorders](#)
- [Pulmonary Disease](#)
- [Purpura](#)
- [Pyelonephritis](#)
- [Q Fever](#)
- [Rectal Fistula](#)
- [Recurrence](#)
- [Reperfusion Injury](#)

- [Respiratory Sounds](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rheumatic Heart Disease](#)
- [Rhinitis](#)
- [Salmonella Infections](#)
- [Sarcoidosis](#)
- [Sepsis](#)
- [Shock](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Spondylitis](#)
- [Stomach Neoplasms](#)
- [Streptococcal Infections](#)
- [Stroke](#)
- [Systemic Inflammatory Response Syndrome](#)
- [Thrombosis](#)
- [Tooth Abnormalities](#)
- [Toxoplasmosis](#)
- [Tuberculosis](#)
- [Tympanic Membrane Perforation](#)
- [Typhoid Fever](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Tract Infections](#)
- [Uterine Cervical Neoplasms](#)
- [Uveitis](#)
- [Vaginal Diseases](#)

- [Vaginosis](#)
- [Virus Diseases](#)
- [Vision](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)
- [Wounds and Injuries](#)