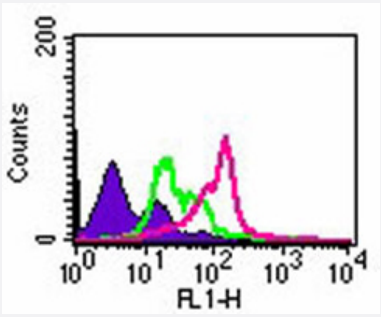
TLR2 monoclonal antibody, clone TL2.1

Catalog # MAB0067 Size 100 ug

Applications



Flow Cytometry

Intracellular flow analysis of TLR2 in 1x10^6 PBMCs. Using 2 ug of TLR2 monoclonal antibody, clone TL2.1 (Cat # MAB0067). Shaded histogram represents cells without antibody; Green represents isotype control (Sigma, Cat # M5409) ; purple represents anti-TLR2 antibody.

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant TLR2.
Immunogen	Recombinant protein corresponding to full length human TLR2.
Host	Mouse
Reactivity	Dog, Human
Form	Liquid
Isotype	IgG2a
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% BSA, 0.05% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunoprecipitation

- Flow Cytometry

  Intracellular flow analysis of TLR2 in 1x10^6 PBMCs. Using 2 ug of TLR2 monoclonal antibody, clone TL2.1 (Cat # MAB0067). Shaded histogram represents cells without antibody; Green represents isotype control (Sigma, Cat # M5409) ; purple represents anti-TLR2 antibody.

Gene Info — TLR2

Entrez GeneID	7097
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

- TLR2 and TLR4 expression on the immune cells of tuberculous pleural fluid.

  Prabha C, Rajashree P, Sulochana DD.

  Immunology Letters 2007 Dec; 117(1):26.

- Intracellular signaling mechanisms regulating toll-like receptor-mediated activation of eosinophils.

  Wong CK, Cheung PF, Ip WK, Lam CW.

  American Journal of Respiratory Cell and Molecular Biology 2007 Mar; 37(1):85.

- Signal transduction and nuclear responses in Staphylococcus aureus-induced expression of human beta-defensin 3 in skin keratinocytes.

  Menzies BE, Kenoyer A.

  Infection and Immunity 2006 Sep; 74(12):6847.

- High-avidity antitumor T-cell generation by toll receptor 8-primed, myeloid- derived dendritic cells is mediated by IL-12 production.

  Shuwen Xu, Ursula Koldovsky, Min Xu, Daniel Wang, Elizabeth Fitzpatrick, Gilsoo Son, Gary Koski, Brian J Czerniecki.

  Surgery 2006 Aug; 140(2):170.

- A dipalmitoylated lipoprotein from Mycoplasma pneumoniae activates NF-kappa B through TLR1, TLR2, and TLR6.

  Shimizu T, Kida Y, Kuwano K.

  Journal of Immunology 2005 Oct; 175(7):4641.

- Expression of mRNA and proteins for toll-like receptors, associated molecules, defensins and LL-37 by SRIK-NKL, a CD8+ NK/T cell line.

  Srivastava MD, Srivastava BI.

  Leukemia Research 2005 Jul; 29(7):813.

- Expression and function of Toll-like receptor 2 in canine blood phagocytes.

  Chiara Bazzocchi, Michele Mortarino, Stefano Comazzi, Claudio Bandi, Alberto Franceschi, Claudio Genchi.

  Veterinary Immunology and Immunopathology 2005 Mar; 104(1-2):15.

  Application: Flow Cyt, Dog, Dog whole blood cells

- Deviation from major codons in the Toll-like receptor genes is associated with low Toll-like receptor expression.

  Fei Zhong, Weiping Cao, Edmund Chan, Puei Nam Tay, Florence Feby Cahya, Haifeng Zhang, Jinhua Lu.

  Immunology 2005 Jan; 114(1):83.

  Application: Flow Cyt, Human, Human monocytes

- Innate immune recognition of invasive bacteria accelerates atherosclerosis in apolipoprotein E-deficient mice.

  Frank C Gibson 3rd, Charlie Hong, Hsin-Hua Chou, Hiromichi Yumoto, Jiqiu Chen, Egil Lien, Jodie Wong, Caroline Attardo Genco.

  Circulation 2004 Jun; 109(22):2801.

  Application: Flow Cyt, IHC-Fr, Hamster, Human, Mouse, CHO cells, Human aortic endothelial cells, Mouse aortic arch tissues

- Toll-like receptor expression in human keratinocytes: nuclear factor kappaB controlled gene activation by Staphylococcus aureus is toll-like receptor 2 but not toll-like receptor 4 or platelet activating factor receptor dependent.

  Mempel M, Voelcker V, Kollisch G, Plank C, Rad R, Gerhard M, Schnopp C, Fraunberger P, Walli AK, Ring J, Abeck D, Ollert M.

  The Journal of Investigative Dermatology 2003 Dec; 121(6):1389.

  Application: IF, Human, Human keratinocytes

- Highly purified lipoteichoic acid activates neutrophil granulocytes and delays their spontaneous apoptosis via CD14 and TLR2.

  Lotz S, Aga E, Wilde I, van Zandbergen G, Hartung T, Solbach W, Laskay T.

  Journal of Leukocyte Biology 2004 Mar; 75(3):467.

  Application: Func, IA, Human, Neutrophils

- Differential expression of Toll-like receptor 2 in human cells.

  Flo TH, Halaas O, Torp S, Ryan L, Lien E, Dybdahl B, Sundan A, Espevik T.

  Journal of Leukocyte Biology 2001 Mar; 69(3):474.

  Application: Flow Cyt, IF, IP, Human, Monocytes, Macrophages, T, B, NK cells, Granulocytes

- Human toll-like receptor 2 mediates monocyte activation by Listeria monocytogenes, but not by group B streptococci or lipopolysaccharide.

  T H Flo, O Halaas, E Lien, L Ryan, G Teti, D T Golenbock, A Sundan, T Espevik.

  Journal of Immunology 2000 Feb; 164(4):2064.

  Application: Flow Cyt, Func, IA, IP, Hamster, Human, CHO cells, Human monocytes, Human PBMCs

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