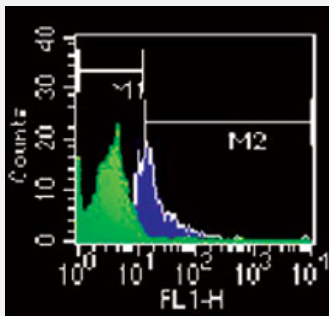


TLR4 monoclonal antibody, clone HTA125

Catalog # MAB0071 Size 100 ug

Applications



Flow Cytometry

Flow cytometric analysis of TLR4 using TLR4 monoclonal antibody, clone HTA125 (Cat # MAB0071) on PBMCs at 2ug/ 1X10⁶ cells. M1 gate are unstained PBMC.

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant TLR4.
Immunogen	Recombinant protein corresponding to full length human TLR4.
Host	Mouse
Reactivity	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 should be handled by trained staff only.

Applications

- Immunocytochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry

Flow cytometric analysis of TLR4 using TLR4 monoclonal antibody, clone HTA125 (Cat # MAB0071) on PBMCs at 2ug/ 1X10⁶ cells. M1 gate are unstained PBMC.

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

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- [Execution of macrophage apoptosis by PE_PGRS33 of Mycobacterium tuberculosis is mediated by Toll-like receptor 2-dependent release of tumor necrosis factor-alpha.](#)

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Application: ELISA, Human, Supernatant of cultured monocytes

- [Regulation of the polymeric Ig receptor by signaling through TLRs 3 and 4: linking innate and adaptive immune responses.](#)

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- [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.](#)

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Application: IF, Human, Human keratinocytes

- [Highly purified lipoteichoic acid activates neutrophil granulocytes and delays their spontaneous apoptosis via CD14 and TLR2.](#)

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Application: Func, IA, Human, Neutrophils

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](#)