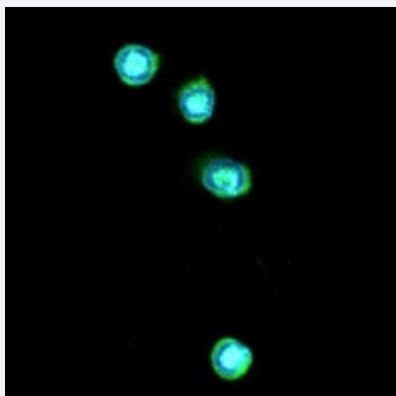


TLR7 monoclonal antibody, clone 4F4

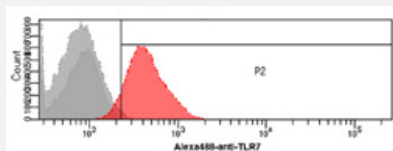
Catalog # MAB1062 Size 100 uL

Applications



Immunofluorescence

Immunofluorescent staining of THP-1 cells line. The cell was stained with TLR7 monoclonal antibody, clone 4F4 (Cat # MAB1062) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



Flow Cytometry

Flow cytometry analysis of THP-1 cells. The cell was stained with TLR7 monoclonal antibody, clone 4F4 (Cat # MAB1062) at 2-5 ug for 1x10⁶ cells (red). A goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant TLR7.
Immunogen	Recombinant protein corresponding to amino acids 451-500 of human TLR7.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G affinity chromatography

Isotype	IgG1, kappa
Recommend Usage	ELISA Flow Cytometry Immunocytochemistry (1:100) Immunofluorescence (1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°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

Immunofluorescent staining of THP-1 cells line. The cell was stained with TLR7 monoclonal antibody, clone 4F4 (Cat # MAB1062) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometry analysis of THP-1 cells. The cell was stained with TLR7 monoclonal antibody, clone 4F4 (Cat # MAB1062) at 2-5 ug for 1×10^6 cells (red). A goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

Gene Info — TLR7

Entrez GeneID	51284
GeneBank Accession#	NM_016562
Protein Accession#	Q9NYK1
Gene Name	TLR7
Gene Alias	-

Gene Description	toll-like receptor 7
Omim ID	300365
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 predominantly expressed in lung, placenta, and spleen, and lies in close proximity to another family member, TLR8, on chromosome X. [provided by RefSeq]
Other Designations	OTTHUMP00000022919

Publication Reference

- [TLR7: A new sensor of viral infection.](#)

Crozat K, Beutler B.

PNAS 2004 May; 101(18):6835.

Application: Flow Cyt, Human, Human mammalian cells

- [Molecular basis for the immunostimulatory activity of guanine nucleoside analogs: activation of Toll-like receptor 7.](#)

Lee J, Chuang TH, Redecke V, She L, Pitha PM, Carson DA, Raz E, Cottam HB.

PNAS 2003 May; 100(11):6646.

- [The adaptor molecule TIRAP provides signalling specificity for Toll-like receptors.](#)

Horng T, Barton GM, Flavell RA, Medzhitov R.

Nature 2002 Nov; 420(6913):329.

Pathway

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

Disease

- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Bronchiolitis](#)
- [Bronchiolitis Obliterans](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Fetal Diseases](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Macular Degeneration](#)
- [Melanoma](#)

- [Multiple Sclerosis](#)
- [Musculoskeletal Diseases](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Respiratory Syncytial Virus Infections](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Virus Diseases](#)