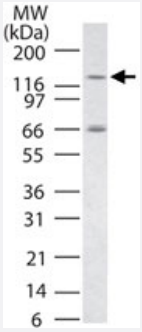
TLR7 polyclonal antibody

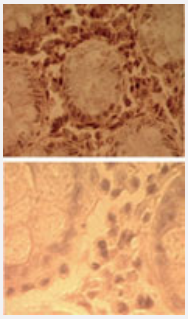
Catalog # PAB0384 Size 100 ug

Applications



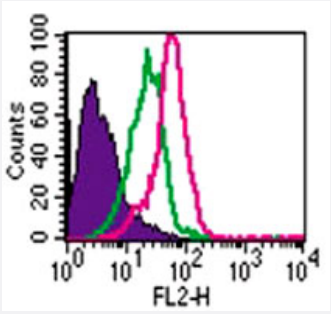
Western Blot (Cell lysate)

Western blot analysis of TLR7 in RAW cell lysate using TLR7 polyclonal antibody (Cat # PAB0384) at 1 ug/mL .



Immunohistochemistry

Immunohistochemical analysis of human colon tissue using TLR7 polyclonal antibody (Cat # PAB0384) (top) and an isotype control (bottom) at 5 ug/mL .



Flow Cytometry

Intracellular staining by FACS analysis of TLR7 in human PBMC using TLR7 polyclonal antibody (Cat # PAB0384) at 0.5 ug/mL. Shaded histogram is cells alone, Green is rabbit IgG isotype control, red represents anti-TLR7 antibody. Imgenex Goat anti-rabbit PE was used for secondary.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TLR7.
Immunogen	A synthetic peptide corresponding to amino acids 706-728 of human TLR7.

Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
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

- Western Blot (Cell lysate)

  Western blot analysis of TLR7 in RAW cell lysate using TLR7 polyclonal antibody (Cat # PAB0384) at 1 ug/mL .

- Immunohistochemistry

  Immunohistochemical analysis of human colon tissue using TLR7 polyclonal antibody (Cat # PAB0384) (top) and an isotype control (bottom) at 5 ug/mL .

- Flow Cytometry

  Intracellular staining by FACS analysis of TLR7 in human PBMC using TLR7 polyclonal antibody (Cat # PAB0384) at 0.5 ug/mL. Shaded histogram is cells alone, Green is rabbit IgG isotype control, red represents anti-TLR7 antibody. Imgenex Goat anti-rabbit PE was used for secondary.

Gene Info — TLR7

Entrez GeneID	51284
Protein Accession#	AAF78035
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

- Human squamous cell carcinomas evade the immune response by down-regulation of vascular E-selectin and recruitment of regulatory T cells.

  Clark RA, Huang SJ, Murphy GF, Mollet IG, Hijnen D, Muthukuru M, Schanbacher CF, Edwards V, Miller DM, Kim JE, Lambert J, Kupper TS.

  The Journal of Experimental Medicine 2008 Sep; 205(10):2221.

- Antitumor effects of imidazoquinolines in urothelial cell carcinoma of the bladder.

  Smith EB, Schwartz M, Kawamoto H, You X, Hwang D, Liu H, Scherr DS.

  The Journal of Urology 2007 Jun; 177(6):2347.

- The interaction between the ER membrane protein UNC93B and TLR3, 7, and 9 is crucial for TLR signaling.

  Brinkmann MM, Spooner E, Hoebe K, Beutler B, Ploegh HL, Kim YM.

  Journal of Cellular Biology 2007 Apr; 177(2):265.

- Members of the Toll-like receptor family of innate immunity pattern-recognition receptors are abundant in the male rat reproductive tract.

  Palladino MA, Johnson TA, Gupta R, Chapman JL, Ojha P.

  Biology of Reproduction 2007 Jun; 76(6):958.

- Expression and regulation of Toll-like receptors in lupus-like immune complex glomerulonephritis of MRL-Fas(lpr) mice.

  Patole PS, Pawar RD, Lech M, Zecher D, Schmidt H, Segerer S, Ellwart A, Henger A, Kretzler M, Anders HJ.

  Nephrology, Dialysis, Transplantation 2006 Sep; 21(11):3062.

- Toll-like receptor-7 modulates immune complex glomerulonephritis.

  Rahul D Pawar, Prashant S Patole, Daniel Zecher, Stephan Segerer, Matthias Kretzler, Detlef Schlöndorff, Hans-Joachim Anders.

  Journal of the American Society of Nephrology 2006 Jan; 17(1):141.

  Application: Flow Cyt, IF, IHC-P, Mouse, Mouse kidney, Mouse macrophages, Mouse mesangial cells

- TLR7/8-mediated activation of human NK cells results in accessory cell-dependent IFN-gamma production.

  Orla M Hart, Veronica Athie-Morales, Geraldine M O'Connor, Clair M Gardiner.

  The Journal of Immunology 2005 Aug; 175(3):1636.

  Application: WB-Ce, Human, 293T, NKL, NK92, YT cells

- 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.

- Inhibition of neutrophil apoptosis by TLR agonists in whole blood: involvement of the phosphoinositide 3-kinase/Akt and NF-kappaB signaling pathways, leading to increased levels of Mcl-1, A1, and phosphorylated Bad.

  Francois S, El Benna J, Dang PM, Pedruzzi E, Gougerot-Pocidalo MA, Elbim C.

  Journal of Immunology 2005 Mar; 174(6):3633.

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