

ARG41729 anti-TLR7 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TLR7
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Bov
Tested Application	FACS, ICC, IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TLR7
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 1020-1047 of Human TLR7. (QAHPYFWQCLKNALATDNHVAYSQVFKE)
Conjugation	Un-conjugated
Alternate Names	TLR7-like; Toll-like receptor 7

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC	1:200 - 1:1000
	IHC-Fr	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 120 kDa	

Properties

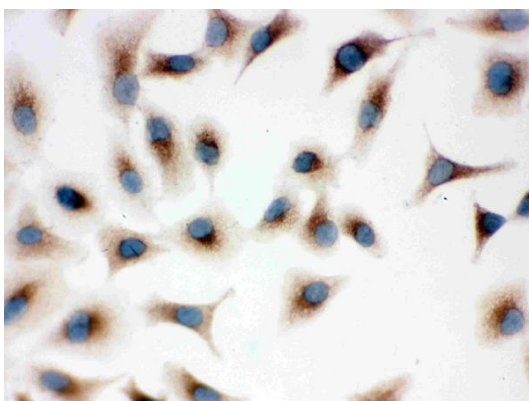
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide

Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

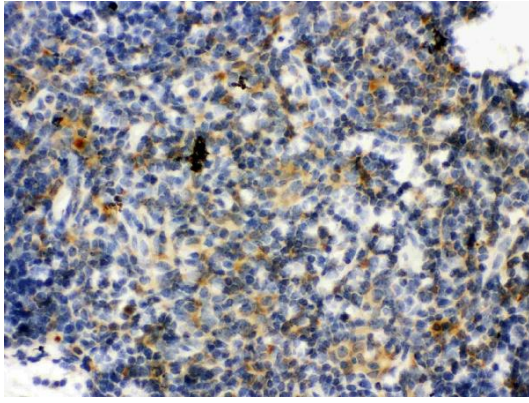
Gene Symbol	TLR7
Gene Full Name	toll-like receptor 7
Background	The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from <i>Drosophila</i> to humans and 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, Jul 2008]
Function	Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR7 is a nucleotide-sensing TLR which is activated by single-stranded RNA. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (By similarity). [UniProt]
Calculated Mw	121 kDa
Cellular Localization	Endoplasmic reticulum membrane; Single-pass type I membrane protein. Endosome. Lysosome. Cytoplasmic vesicle, phagosome. Note=Relocalizes from endoplasmic reticulum to endosome and lysosome upon stimulation with agonist. [UniProt]

Images



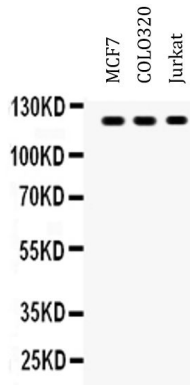
ARG41729 anti-TLR7 antibody ICC image

Immunocytochemistry: A549 cells stained with ARG41729 anti-TLR7 antibody at 1 µg/ml dilution, overnight at 4°C.



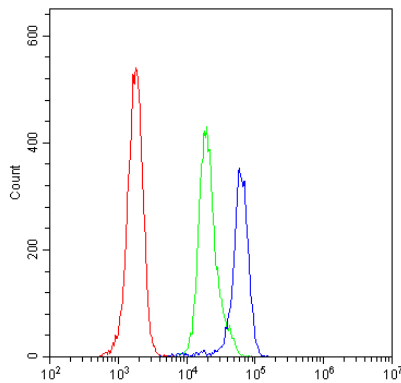
ARG41729 anti-TLR7 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse thymus tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41729 anti-TLR7 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



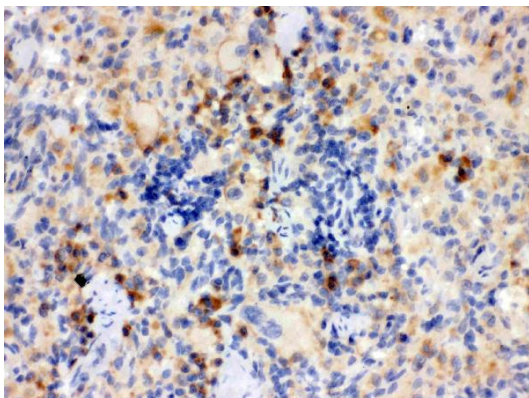
ARG41729 anti-TLR7 antibody WB image

Western blot: 50 μg of samples MCF7, COLO320 and Jurkat whole cell lysates stained with ARG41729 anti-TLR7 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



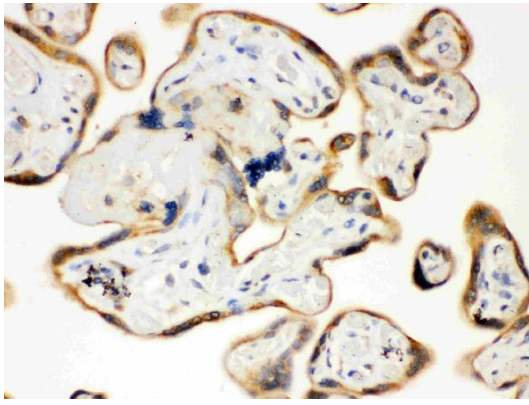
ARG41729 anti-TLR7 antibody FACS image

Flow Cytometry: Human PBMC cells were blocked with 10% normal goat serum and then stained with ARG41729 anti-TLR7 antibody (blue) at 1 $\mu\text{g}/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Rabbit IgG (1 $\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



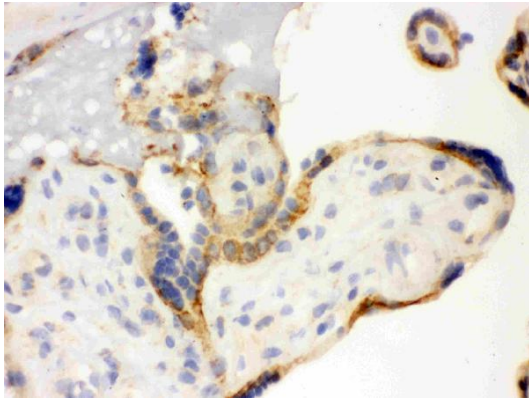
ARG41729 anti-TLR7 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat thymus tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41729 anti-TLR7 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG41729 anti-TLR7 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41729 anti-TLR7 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG41729 anti-TLR7 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Human placenta tissue. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41729 anti-TLR7 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.
