# 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/IF, 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/IF | 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

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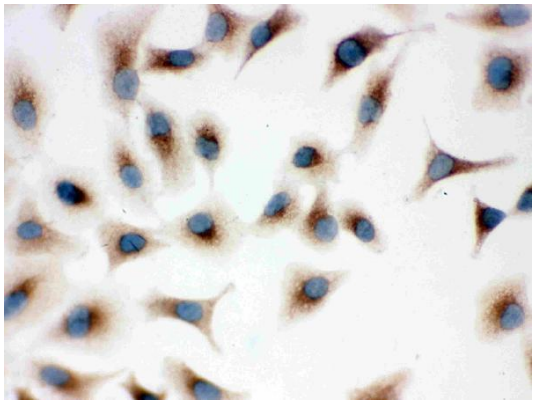
|---|---|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | 0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 5% BSA. |
| Preservative | 0.05% Sodium azide |

| | |
|---|---|
| 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

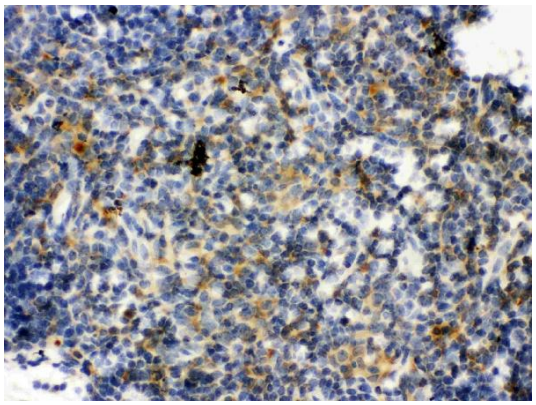
| | |
|---|---|
| Gene Symbol | TLR7 |
| Gene Full Name | toll-like receptor 7 |
| Background | The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from 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, 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



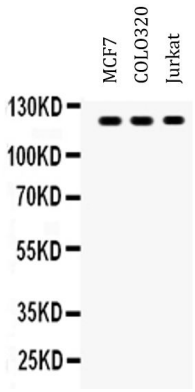
ARG41729 anti-TLR7 antibody ICC image

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



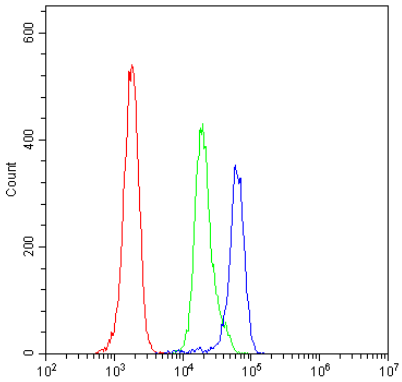
ARG41729 anti-TLR7 antibody IHC-P image

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 µg/ml dilution, overnight at 4°C.



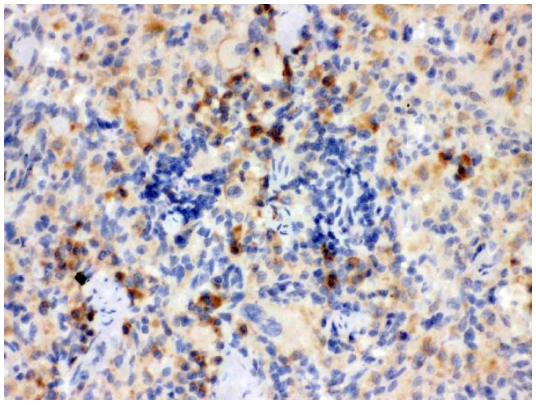

ARG41729 anti-TLR7 antibody WB image

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



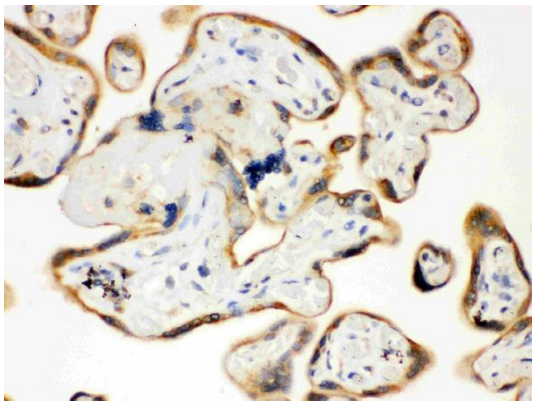

ARG41729 anti-TLR7 antibody FACS image

Flow Cytometry: Human PBMC cells were blocked with 10% normal goat serum and then stained with ARG41729 anti-TLR7 antibody (blue) at 1 µg/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 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



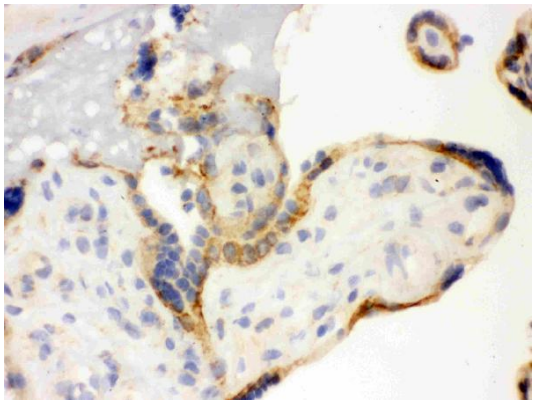
ARG41729 anti-TLR7 antibody IHC-P image

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 µg/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 µg/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 µg/ml dilution, overnight at 4°C.