

**Anti-TLR9 Antibody (clone 72-1665)  
Rat Anti Human Monoclonal Antibody  
Catalog # ALS17763****Specification**

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**Anti-TLR9 Antibody (clone 72-1665) - Product Information**

Application	WB, IHC-P, FC
Primary Accession	<a href="#">O9NR96</a>
Predicted	Human
Host	Rat
Clonality	Monoclonal
Isotype	IgG2a,k
Calculated MW	115860

**Anti-TLR9 Antibody (clone 72-1665) - Additional Information****Gene ID** 54106**Alias Symbol** TLR9  
**Other Names**  
TLR9, CD289, CD289 antigen, Scri2a, Toll-like receptor 9**Reconstitution & Storage**

Affinity purified

**Precautions**

Anti-TLR9 Antibody (clone 72-1665) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-TLR9 Antibody (clone 72-1665) - Protein Information****Name** TLR9**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. TLR9 is a nucleotide-sensing TLR which is activated by unmethylated cytidine-phosphate-guanosine (CpG) dinucleotides (PubMed: [14716310](http://www.uniprot.org/citations/14716310)). Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed: [11564765](http://www.uniprot.org/citations/11564765), PubMed: [17932028](http://www.uniprot.org/citations/17932028)). Controls lymphocyte response to Helicobacter infection (By similarity). Upon CpG stimulation, induces B-cell proliferation, activation, survival and antibody production (PubMed: [23857366](http://www.uniprot.org/citations/23857366)).

**Cellular Location**

Endoplasmic reticulum membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q9EQU3}. Early endosome membrane. Lysosome {ECO:0000250|UniProtKB:Q9EQU3} Cytoplasmic vesicle, phagosome {ECO:0000250|UniProtKB:Q9EQU3}. Golgi apparatus membrane. Note=Relocalizes from endoplasmic reticulum to endosome and lysosome upon stimulation with agonist. Exit from the ER requires UNC93B1. Endolysosomal localization is required for proteolytic cleavage and subsequent activation Intracellular localization of the active receptor may prevent from responding to self nucleic acid. {ECO:0000250|UniProtKB:Q9EQU3, ECO:0000269|PubMed:14716310, ECO:0000269|PubMed:38169466}

#### **Tissue Location**

Highly expressed in spleen, lymph node, tonsil and peripheral blood leukocytes, especially in plasmacytoid pre-dendritic cells. Levels are much lower in monocytes and CD11c+ immature dendritic cells. Also detected in lung and liver

#### **Anti-TLR9 Antibody (clone 72-1665) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Anti-TLR9 Antibody (clone 72-1665) - Images**