

# TLR8 Polyclonal Antibody

Catalog # AP63535

## Product Information

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Application	IHC-P
Primary Accession	<a href="#">Q9NR97</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	119828

## Additional Information

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Gene ID	51311
Other Names	Toll-like receptor 8; CD288
Dilution	IHC-P~~N/A
Format	PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.
Storage Conditions	-20°C

## Protein Information

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Name	TLR8 ( <a href="#">HGNC:15632</a> )
Function	<p>Endosomal receptor that plays a key role in innate and adaptive immunity (PubMed:<a href="#">25297876</a>, PubMed:<a href="#">32433612</a>). Controls host immune response against pathogens through recognition of RNA degradation products specific to microorganisms that are initially processed by RNASET2 (PubMed:<a href="#">31778653</a>). Recognizes GU-rich single- stranded RNA (GU-rich RNA) derived from SARS-CoV-2, SARS-CoV-1 and HIV- 1 viruses (PubMed:<a href="#">33718825</a>). Upon binding to agonists, undergoes dimerization that brings TIR domains from the two molecules into direct contact, leading to the recruitment of TIR-containing downstream adapter MYD88 through homotypic interaction (PubMed:<a href="#">23520111</a>, PubMed:<a href="#">25599397</a>, PubMed:<a href="#">26929371</a>, PubMed:<a href="#">33718825</a>). In turn, the Myddosome signaling complex is formed involving IRAK4, IRAK1, TRAF6, TRAF3 leading to activation of downstream transcription factors NF- kappa-B and IRF7 to induce pro-inflammatory cytokines and interferons, respectively (PubMed:<a href="#">16737960</a>, PubMed:<a href="#">17932028</a>, PubMed:<a href="#">29155428</a>).</p>
Cellular Location	<p>Endosome membrane; Single-pass type I membrane protein. Note=Endosomal localization confers distinctive proteolytic processing</p>

<b>Tissue Location</b>	Expressed in myeloid dendritic cells, monocytes, and monocyte-derived dendritic cells.
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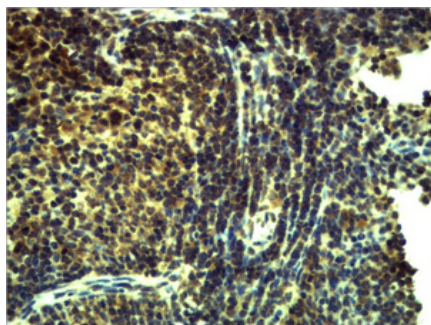
## Background

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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. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.

## Images

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Immunohistochemical analysis of paraffin-embedded Mouse Spleen Tissue using TLR8 Polyclonal Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.