

## Product datasheet for **TA336419**

### TLR7 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry, Flow (Intracellular): 0.5 - 2 ug/1x10 <sup>6</sup> cells, Immunohistochemistry: 1:10 - 1:500, Immunohistochemistry-Paraffin: 1:10 - 1:50, Flow (Cell Surface), Immunohistochemistry-Frozen: 1:20
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This antibody was developed against KLH-conjugated synthetic peptide corresponding to a portion of amino acids 684-701 of human TLR7 (NP_057646).
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	toll like receptor 7
Database Link:	<a href="#">NP_057646</a> <a href="#">Entrez Gene 170743 Mouse</a> <a href="#">Entrez Gene 51284 Human</a> <a href="#">Q9NYK1</a>



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**Background:** The Toll-like receptor (TLR) family in mammal comprises a family of transmembrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and IL-1 receptor motif in the cytoplasmic domain. Like its counterparts in *Drosophila*, TLRs signal through adaptor molecules and could constitute an important and unrecognized component of innate immunity in humans. The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition. TLRs characterized so far activate the MyD88/interleukin-1 receptor-associated kinase (IRAK) signaling pathway. Ten human homologs of TLRs (TLR1-10) have been described. Stimulation of the NF $\kappa$ B signaling pathway by TLR7 suggests that it plays a role in immune response.

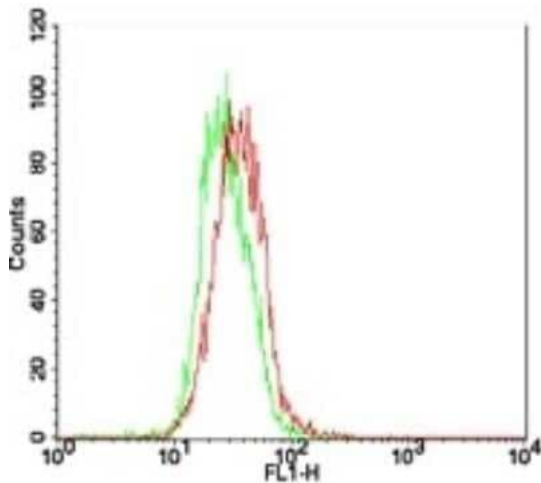
**Synonyms:** TLR7-like

**Note:** Flow Cytometry: (Cell Surface): see Wong et al, 2007 for details Immunohistochemistry-Frozen: (1:20) (see product citation, Chen et al., 2005)

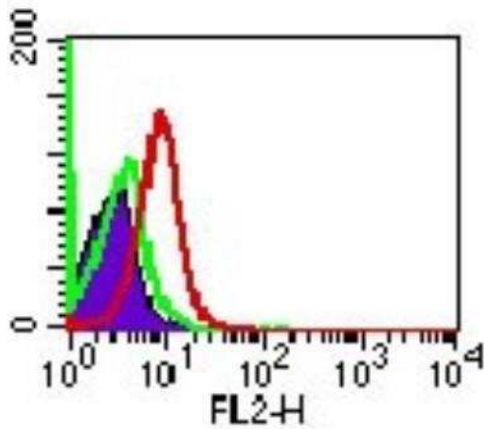
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Toll-like receptor signaling pathway

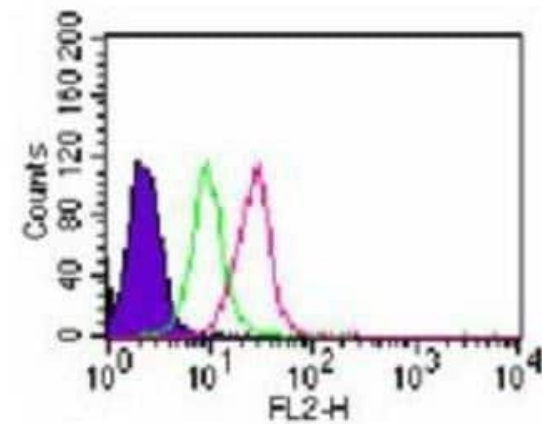
### Product images:



Flow (Intracellular): TLR7 Antibody TA336419 - Analysis using the FITC conjugate of TA336419. Staining of TLR7 in TLR7/HEK 293 cells using this antibody at 2  $\mu$ g/ $10^6$  cells. Green: Vector/HEK 293 cells. Red: TLR7/HEK 293 cells.



Flow Cytometry: TLR7 Antibody TA336419 - Analysis using the PE conjugate of TA336419. Staining of TLR7 in human PBMCs (monocytes) using  $0.5 \mu\text{g}/10^6$  cells of NBP2-24761. The shaded histogram represents cells alone. Green: PE-conjugated rabbit IgG isotype control (20304D). Red: TLR7 antibody.



Flow Cytometry: TLR7 Antibody TA336419 - Intracellular flow analysis of TLR7 in  $10^6$  ThP1 cells using  $2 \mu\text{g}$  of TA336419. Shaded histogram represents cells without antibody. Green: isotype control. Red: TLR7 antibody. Intracellular flow kit was used for this test, and an anti-rabbit IgG PE conjugated secondary.