

Product datasheet for **TA336873**

TLR5 Mouse Monoclonal Antibody [Clone ID: 85B152.5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	85B152.5
Applications:	FC, IHC, WB
Recommended Dilution:	Flow (Cell Surface), Immunohistochemistry-Paraffin, Flow (Intracellular), Immunohistochemistry, Flow Cytometry: 1-3 ug/10 ⁶ cells in 100 ul, Western Blot: 1-3 ug/ml
Reactivity:	Human, Mouse, Canine
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	This antibody was developed against KLH-conjugated synthetic peptide corresponding to a portion of human TLR5. It will cross-react with mouse TLR5 (NP_003259).
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.
Predicted Protein Size:	100 kDa
Gene Name:	toll like receptor 5
Database Link:	NP_003259 Entrez Gene 53791 Mouse Entrez Gene 7100 Human O60602



[View online »](#)

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. Thirteen homologs of TLRs (TLR1-13) have been described. Toll-like receptor 5 (TLR5) expression is upregulated following exposure to bacteria or to the TLR5 agonist, flagellin. Gram-negative bacteria, stimulate monocyte/macrophage cells in a TLR5-specific, CD14-independent manner. The TLR5 receptor thus appears to be the principal means by which the innate immune system recognizes flagellated bacterial pathogens.

Synonyms:

MELIOS; SLE1; SLEB1; TIL3

Note:

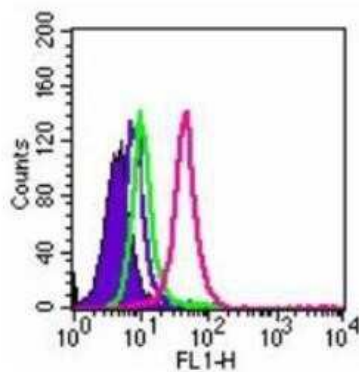
Reported use in Flow Cytometry (cell surface): see Wong et al, 2007 for details.

Protein Families:

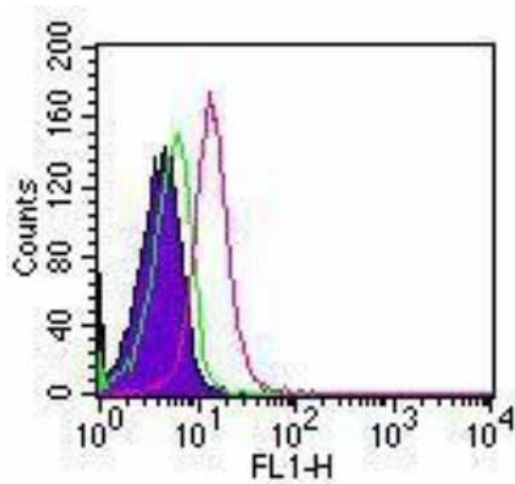
Druggable Genome, Transmembrane

Protein Pathways:

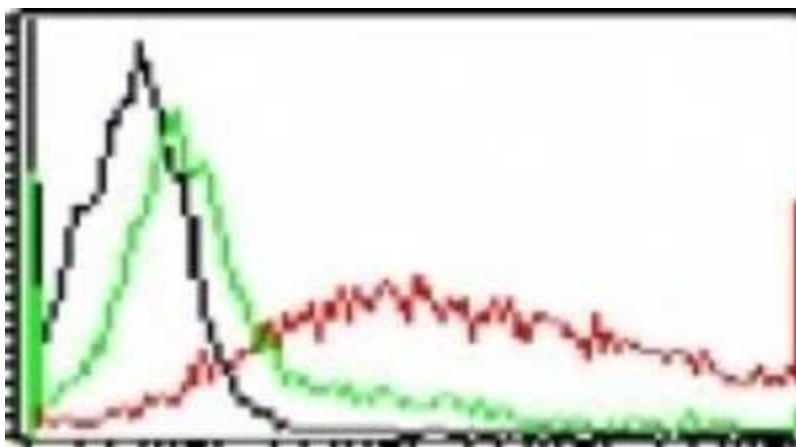
Pathogenic *Escherichia coli* infection, Toll-like receptor signaling pathway

Product images:

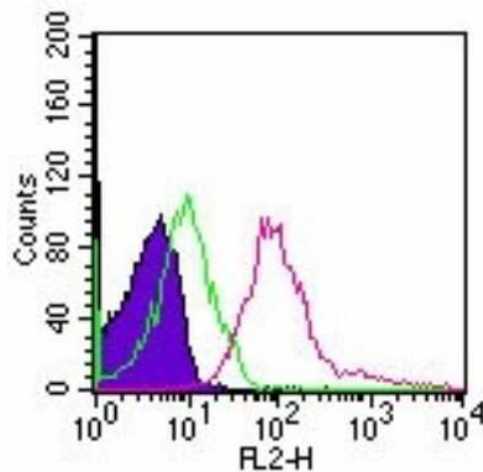
Flow Cytometry: TLR5 Antibody (85B152.5) TA336873 - Intracellular flow analysis of TLR5 in Ramos cells using 1 ug of TLR5 antibody. Shaded histogram represents Ramos cells without antibody; green represents isotype control antibody; red represents TLR5 antibody.



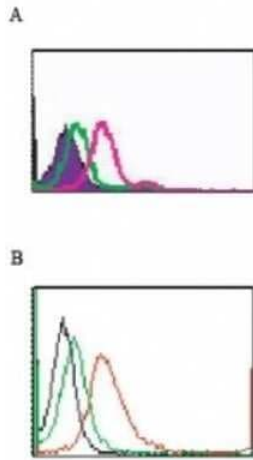
Flow Cytometry: TLR5 Antibody (85B152.5) TA336873 - Intracellular flow analysis of TLR5 in 10^6 human lymphocytes using 0.5 ug of NB200-571. The shaded histogram represents cells without antibody, green represents isotype control (BD), and red represents TLR5 antibody.



Flow Cytometry: TLR5 Antibody (85B152.5) TA336873 - Analysis using the PE conjugate of TA336873. Staining of TLR5 in 10^6 RAW cells using 0.5 ugs of PE-conjugated antibody. The black histogram represents cells without antibody, green represents isotype control antibody, and red represents TLR5 antibody.



Flow Cytometry: TLR5 Antibody (85B152.5) TA336873 - Analysis using the PE conjugate of TA336873. Staining of TLR5 in 10^6 human lymphocytes using 0.5 ugs of PE-conjugated antibody. The shaded histogram represents cells without antibody, green represents isotype control antibody, and red represents TLR5 antibody.



Flow Cytometry: TLR5 Antibody (85B152.5) TA336873 - Analysis using the FITC conjugate of TA336873. Staining of TLR5 in 10^6 cells using 0.5 ugs of FITC-conjugated antibody: A) Intracellular flow testing of human Ramos cells and B) cell surface flow testing of mouse RAW cells. The shaded (or black) histogram represents cells without antibody, green represents isotype control antibody, and red represents TLR5 antibody.