

## Product datasheet for **TA336394**

### TLR6 Mouse Monoclonal Antibody [Clone ID: 86B1153.2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	86B1153.2
Applications:	FC, IHC, WB
Recommended Dilution:	Immunohistochemistry-Paraffin: 5 ug/ml, Immunohistochemistry: 1:10-1:500, Flow Cytometry: 3 ug/10 <sup>6</sup> cells, Flow (Intracellular), Flow (Cell Surface), Western Blot
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	This antibody was developed against a synthetic peptide corresponding to amino acids 408-424 of human TRL6.
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 6
Database Link:	<a href="#">NP_006059</a> <a href="#">Entrez Gene 10333 Human</a> <a href="#">Q9Y2C9</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. 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. The amino acid sequence of human TLR6 is most similar to hTLR1 with 69% identity at the amino acid level. Human TLR6 consists of a predicted 807 amino acids with a molecular weight of approximately 92 kDa. Human and mouse TLR6 share an amino acid identity of 73%. TLR6 activates both NF- $\kappa$ B and c-Jun N-terminal Kinase (JNK). The amino acids in the cytoplasmic domain of IL-1 receptor, which are critical for NF- $\kappa$ B activation, are conserved in TLR6. It has also been shown that TLR2-mediated response to a phenol-soluble factor from *Staphylococcus epidermidis* is enhanced by TLR6. TLR6 is predominantly expressed in spleen, thymus, ovary, and lung.

**Synonyms:**

CD286

**Note:**

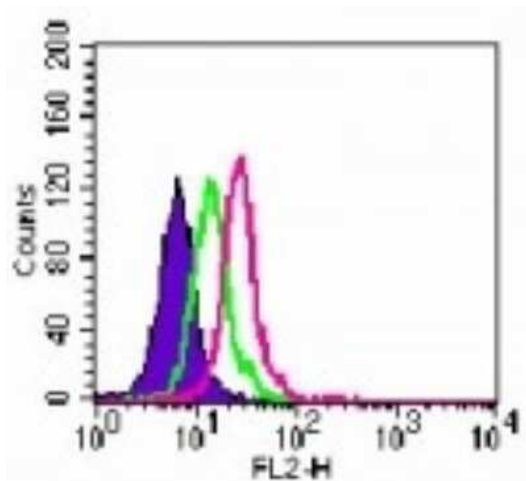
Immunohistochemistry-Paraffin and Flow cytometry/(Intracellular)

**Protein Families:**

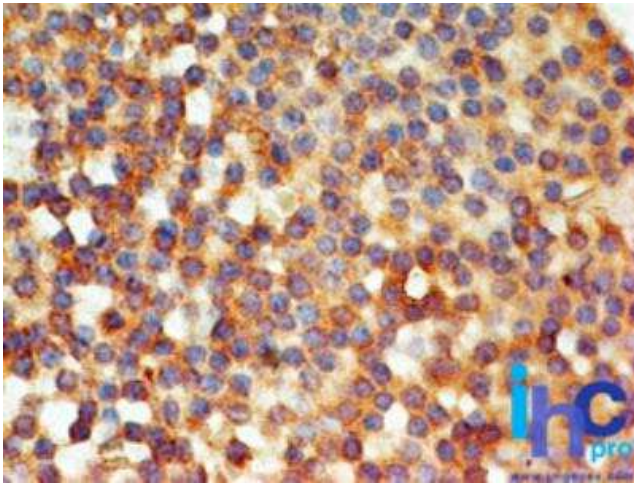
Druggable Genome, Transmembrane

**Protein Pathways:**

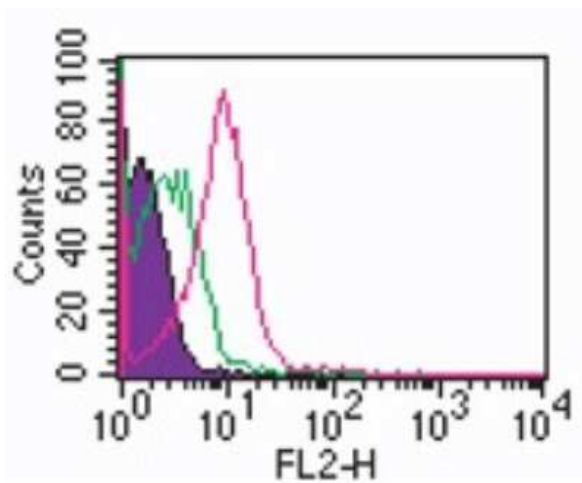
Toll-like receptor signaling pathway

**Product images:**

Flow (Intracellular): TLR6 Antibody (86B1153.2) TA336394 - Analysis using the PE conjugate of TA336394. Staining of TLR6 in Ramos cells using this antibody.  $5 \mu\text{g}/10^6$  cells. Shaded histogram represents Ramos cells without antibody; green represents isotype control (BD Pharmingen); red represents this antibody.



Immunohistochemistry-Paraffin: TLR6 Antibody (86B1153.2) TA336394 - Tonsil probed with TLR6 antibody at 5 ug/ml. Novus's human tissue TMA was used for this test. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



Flow Cytometry: TLR6 Antibody (86B1153.2) TA336394 - Cell surface analysis of TLR6 antibody in  $10^6$  human monocytes using 0.5 ug of this antibody. Shaded histogram represents cells without antibody; green represents isotype control antibody; red represents anti-TLR6 antibody. goat anti-mouse IgG PE conjugated secondary antibody was used.