

## Monoclonal Antibody to TLR5 (700-800) - FITC

<b>Alternate names:</b>	TIL3, Toll-like receptor 5, Toll/interleukin-1 receptor-like protein 3
<b>Catalog No.:</b>	SM7103F
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	<p>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.</p>
<b>Uniprot ID:</b>	<a href="#">O60602</a>
<b>NCBI:</b>	<a href="#">NP_003259.2</a>
<b>GeneID:</b>	<a href="#">7100</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	19D759.2
<b>Immunogen:</b>	KLH-conjugated synthetic peptide corresponding to a portion of human TLR5 between amino acids 700-800
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Protein G chromatography <b>Buffer System:</b> 10 mM Tris, 150 mM NaCl, containing 0.05% sodium azide <b>Label:</b> FITC
<b>Applications:</b>	Flow cytometry (Cell surface). Flow cytometry (Intracellular): 0.5-1.0 µg/10e6 cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes an intracellular epitope in the cytoplasmic domain of TLR5.
<b>Species Reactivity:</b>	<b>Tested:</b> Human, mouse <b>Expected from sequence similarity:</b> Dog

**Storage:** Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.  
Shelf life: six months from despatch.

**General Readings:** 1. Muzio M, Natoli G, Saccani S, Levrero M, and Mantovani A.J. Exp. Med. 187: 2097-2101 (1998).  
2. Medzhitov R and Janeway CA. Cell 91: 295-298 (1997).  
3. Chuang TH and Ulevitch RJ. Biochim. Biophys. Acta 1518 (1-2): 157-161 (2001).

**Pictures:** Intracellular flow cytometric analysis of TLR5 in PBMCs using 0.5 µg/10e6 cells of SM7103F. Shaded histogram represents cells without antibody; green represents isotype control; red represents anti-TLR5 antibody.

