

Monoclonal Antibody to TLR5 (700-800) - Alexa Fluor 488

Alternate names:	TIL3, Toll-like receptor 5, Toll/interleukin-1 receptor-like protein 3
Catalog No.:	SM7103AF488
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	<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 <i>Drosophila</i>, 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>
Uniprot ID:	O60602
NCBI:	NP_003259.2
GeneID:	7100
Host / Isotype:	Mouse / IgG2a
Clone:	19D759.2
Immunogen:	KLH-conjugated synthetic peptide corresponding to a portion of human TLR5 between amino acids 700-800
Format:	State: Liquid Ig fraction Purification: Protein G Chromatography Buffer System: PBS containing 0.05% BSA and 0.05% sodium azide Label: Alexa Fluor 488 – Alexa Fluor® 488
Applications:	Flow cytometry (Cell Surface). Flow cytometry (Intracellular): 1-2 µg/10 ⁶ cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects TLR5

Species Reactivity: Tested: Human, mouse

Expected from sequence similarity: 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 10e6 ThP1 cells using 0.5 µg of IMG-664AF488. The shaded histogram represents ThP1 cells alone, green represents isotype control (SM7103AF488), and red represents TLR5 antibody.

