

Product datasheet for **AM08191PU-N**

TLR2 Mouse Monoclonal Antibody [Clone ID: 2B4A1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2B4A1
Applications:	FC
Recommended Dilution:	Flow Cytometry: 1 µg/10e6.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody is specific for Toll-like Receptor 2 (TLR2).
Formulation:	100 mM Borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	toll like receptor 2
Database Link:	Entrez Gene 7097 Human O60603



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Background:

The Toll-like receptor (TLR) family is comprised of Type I transmembrane proteins characterized by an extracellular leucine-rich domain and a cytoplasmic tail that contains a conserved region call the Toll/IL-1 (TIR) domain. First discovered in *Drosophila*, TLRs recognize specific molecular patterns that are present in microbial components and respond to these components in order eliminate or limit invading microbes. To date, ten mammalian homologs of TLRs have been described. Activation of TLR2 leads to the initiation of apoptosis and the activation of the NK-kB pathway by the adaptor molecule MyD88. TLR2 recognizes and is activated by components from a broad variety of microorganisms including lipoproteins from Gram-negative bacteria, *Mycoplasma*, spirochetes, peptidoglycan and LTAs from Gram-positive bacteria, lipoarabinomannan from mycobacteria, glycoinositolphospholipids, phenolsoluble modulin, zymosan from yeast and neisserial porins. TLR2 has been reported to functionally associate with TLR1 and TLR6 in order to recognize various lipopeptides. (Ref.1-16)

Synonyms:

Toll-like receptor 2