

Product datasheet for **AM08192PU-N**

TLR4 Mouse Monoclonal Antibody [Clone ID: 1E11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1E11
Applications:	ELISA, FC
Recommended Dilution:	ELISA: 1/2000-1/4,000. Flow Cytometry: $\leq 3\mu\text{g}/10^6$ cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody is specific for Toll-like Receptor 4 (TLR4).
Formulation:	100 mM Borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store 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 4
Database Link:	Entrez Gene 7099 Human O00206



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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. TLR4 is involved in the recognition of lipopolysaccharide (LPS), an abundant glycolipid of Gram-negative bacteria. Through its association with MD-2 and CD14, TLR4 recognizes and initiates multiple intracellular signaling events such as the activation of NF-kB leading to the ultimate synthesis and release of a number of proinflammatory mediators including interleukin-1 (IL-1), interleukin-6 (IL-6), interleukin-8 (IL-8) and tumor necrosis factor- α (TNF-alpha). TLR4 has also been associated in the recognition of and lipocheic acid (LTA), Hsp60 and Hsp70 (Ref.1-10)
Synonyms:	Toll-like receptor 4
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway