

## Product datasheet for **AM26183PU-N**

### TLR4 Mouse Monoclonal Antibody [Clone ID: 3C3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	3C3
Applications:	FC, FN
Recommended Dilution:	Flow cytometry (Typical starting working dilution is 1:50). Functional assays (blocking LPS-induced cytokine functions).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	CHO cells expressing chimeric human TLR4/MD-2 fusion protein
Specificity:	This antibody reacts with human Toll-like receptor 4 (TLR4, CD284). It is a TLR4 function-blocking antibody that is useful for studies on the role of TLR4 as a receptor for LPS induced cytokine production by TLR4 bearing cells.
Formulation:	PBS State: Azide Free State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	toll like receptor 4
Database Link:	<a href="#">Entrez Gene 7099 Human</a> <a href="#">O00206</a>



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<b>Background:</b>	TLRs belong to a family of proteins that specifically recognize and sense microbial products. They are highly conserved throughout evolution. In <i>Drosophila</i> , toll is required for the anti-fungal response, while the related 18-wheeler is involved in antibacterial defences. TLRs identified as type I transmembrane signalling receptors act as innate immune recognition receptors against many pathogens. TLR4 is a functional receptor for gram-negative bacterial lipopolysaccharides (LPS). TLR4 associates with MD-2 which is absolutely required for LPS-induced activation of TLR4. TLR4 has been identified next to MD-2 and CD14 as a receptor that is central to the innate immune response to LPS of Gram-negative bacteria.
<b>Synonyms:</b>	Toll-like receptor 4
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Pathogenic <i>Escherichia coli</i> infection, Toll-like receptor signaling pathway