

Product datasheet for **AM01267BT-S**

Tlr2 Rat Monoclonal Antibody [Clone ID: 6C2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6C2
Applications:	FC
Recommended Dilution:	Flow cytometry. Immunofluorescence of fixed RAW cells: The typical starting working dilution is 1:50. Not useful for Western blot.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Specificity:	Monoclonal antibody 6C2 reacts with mouse Toll-like receptor 2 (TLR2, CD282).
Formulation:	PBS Label: Biotin State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Biotin
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	toll-like receptor 2
Database Link:	Entrez Gene 24088 Mouse Q9QUN7



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Background:

Toll-like receptors (TLR) are highly conserved throughout evolution and have been implicated in the innate defense to many pathogens. In *Drosophila* toll is required for the anti-fungal response, while the related 18-wheeler is involved in antibacterial defenses. In mammals, TLR identified as type I transmembrane signaling receptors with pattern recognition capabilities, have been implicated in the innate host defense to pathogens. TLR2 has been identified as a receptor that is central to the innate immune response to lipoproteins of gram-negative bacteria, several whole gram-positive bacteria, as well as a receptor for peptidoglycan and lipoteichoic acid and other bacterial cell membrane products. A functional interaction between TLR2 and TLR6 in the cellular response to various bacterial products has been discovered. The currently accepted paradigm regards TLR2 as an essential receptor for many eubacterial cell wall components, including lipoproteins and peptidoglycan. Bacterial species as diverse as mycobacteria, spirochetes, mycoplasma, *Staphylococcus aureus*, and *Streptococcus pneumoniae* have all been shown to mediate cellular activation via TLR2.

Synonyms:

Toll-like receptor 2