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Product datasheet for TA336462

TLR2 Mouse Monoclonal Antibody [Clone ID: TL2.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	TL2.1
Applications:	Block/Neutralize, Dot, ELISA, FC, ICC/IF, IP, WB
Recommended Dilution:	Immunocytochemistry/ Immunofluorescence: 1:10-1:500, Immunoprecipitation: 2-5 ug, Western Blot: 1 - 2 ug/ml, Flow Cytometry: 1 ug/10^6 cells, Functional, Block/Neutralize, Flow (Cell Surface), Dot Blot, In vitro assay, ELISA
Reactivity:	Human, Canine
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	This antibody was raised by immunizing mice with CHO cells transfected with human TLR2 cDNA (Flo et al, 2000). The hybridoma supernatants were selected by flow cytometry.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	toll like receptor 2
Database Link:	NP_003255 Entrez Gene 7097 Human O60603

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Background: The Toll-like receptors (TLRs) in mammals comprise a family of transmembrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and an IL-1 receptor motif in the cytoplasmic domain. Like its counterparts in Drosophila, TLRs signal through adaptor molecules (1). The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition (2). Ten human homologs of TLRs (TLR1-10) have been described (3). TLR2 is differentially expressed in human cells. TLR2 is expressed in tonsils, lymph nodes, and appendices, activated B-cells in germinal centers. CD14+ monocytes expressed the highest level of TLR2 followed by CD15+ granulocytes, and CD19+ B-cells, CD3+ T-cells, and CD56+ NK cells did not express TLR2. The expression of TLR2 in different cell types is regulated by different immune response modifiers. For example, LPS, GM-CSF, IL-1, and IL-10 up regulates TLR2 whereas IL-4, IFN-gamma, and TNF down regulate TLR2 expression in monocytes (4).

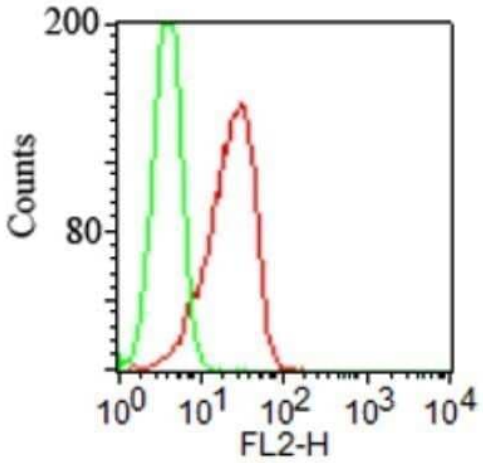
Synonyms: CD282; TIL4

Note: Immunocytochemistry/Immunofluorescence: please see Mempel et al. (2003) for details Immunohistochemistry (paraffin): please see Faure et al. (2001) for details Western Blot: please see Faure et al. (2001) for details

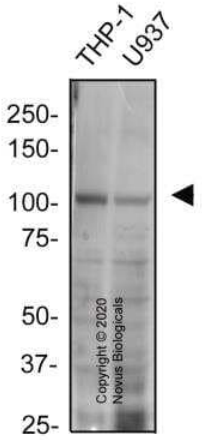
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Toll-like receptor signaling pathway

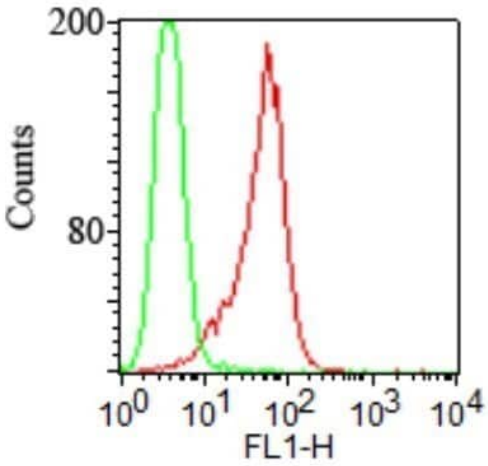
Product images:



Flow (Cell Surface): TLR2 Antibody (TL2.1) TA336462 - Flow (Cell Surface): - Azide Free [NB100-56726] - Analysis using the PE conjugate of NB100-56726. Staining of TLR2 on stable transfected cell line using this antibody at 1 ug/10^6 cells. Green: isotype control. Red: anti-TLR2 antibody. Image using the Azide Free form of this antibody.



Western Blot: TLR2 Antibody (TL2.1) TA336462 - Total protein from human THP-1 and U937 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-TLR2 (TA336462) in 5% BSA-TBST and detected with an anti-mouse HRP secondary antibody using NovaLume chemiluminescence detection reagent (NPB2-61915).



Flow Cytometry: TLR2 Antibody (TL2.1) TA336462 - Analysis using the FITC conjugate of NB100-56726. Surface staining of stable HEK293/hTLR2 cells (IML-202, red) and vector control cells (IML-200, green) using TLR2 antibody at 1 ug/10^6 cells.