

Product Data Sheet

TLR7 Antibody, PE conjugate (4G6)

Lot Number: QA1965432

Tested Species Reactivity

Human (Hu)

Details

Catalog Number:	MA5-16249
Size:	100 Tests
Class:	Monoclonal
Type:	Antibody
Clone:	4G6
Host / Isotype:	Mouse / IgG1, kappa
Immunogen:	Synthetic peptide (277 amino acid (AA 562- 839)) of TLR7 protein.

Tested Applications

Dilution *

Flow Cytometry (FACS) 10 μ l/10⁶ cells

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Form Information

Form:	Liquid
Purification:	Protein G
Storage Buffer:	PBS with 0.05% BSA
Preservative:	0.05% sodium azide
Storage Conditions:	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Product Specific Information

General Information

TLR7 is a 1049 amino acid long highly conserved membrane protein belonging to the Toll-like receptor (TLR) family with 27 LRR (leucine-rich) repeats and a TIR domain. It plays a fundamental role in pathogen recognition and activation of innate immunity. TLR7 is activated by infections with single-stranded RNA viruses, including influenza virus and vesicular stomatitis virus (VSV). It is predominantly expressed in lung, placenta, and spleen, and lies in close proximity to another family member, TLR8. It acts via MyD88 and TRAF6, leading to NF-kappaB activation, cytokine secretion and the inflammatory response. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity.

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