

TLR9 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant TLR9. Catalog # AT4259a

Specification

TLR9 Antibody (monoclonal) (M03) - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW

WB, IF, E <u>O9NR96</u> <u>BC032713</u> Human mouse Monoclonal IgG2a Kappa 115860

TLR9 Antibody (monoclonal) (M03) - Additional Information

Gene ID 54106

Other Names Toll-like receptor 9, CD289, TLR9

Target/Specificity TLR9 (AAH32713, 99 a.a. ~ 215 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution WB~~1:500~1000 IF~~1:50~200 E~~N/A

Format Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions TLR9 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

TLR9 Antibody (monoclonal) (M03) - Protocols

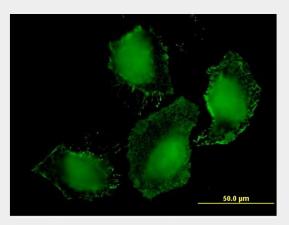
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides

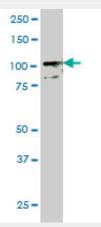


- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

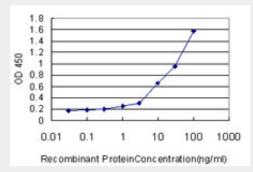
TLR9 Antibody (monoclonal) (M03) - Images



Immunofluorescence of monoclonal antibody to TLR9 on HeLa cell. [antibody concentration 10 ug/ml]



TLR9 monoclonal antibody (M03), clone 1E8 Western Blot analysis of TLR9 expression in IMR-32 (Cat # L008V1).



Detection limit for recombinant GST tagged TLR9 is approximately 0.1ng/ml as a capture antibody.

TLR9 Antibody (monoclonal) (M03) - Background



The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. 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. The various TLRs exhibit different patterns of expression. This gene is preferentially expressed in immune cell rich tissues, such as spleen, lymph node, bone marrow and peripheral blood leukocytes. Studies in mice and human indicate that this receptor mediates cellular response to unmethylated CpG dinucleotides in bacterial DNA to mount an innate immune response.

TLR9 Antibody (monoclonal) (M03) - References

Toll-like receptor and TIRAP gene polymorphisms in pulmonary tuberculosis patients of South India. Selvaraj P, et al. Tuberculosis (Edinb), 2010 Sep. PMID 20797905.Toll-like receptor 8 and 9 polymorphisms in Crimean-Congo hemorrhagic fever. Engin A, et al. Microbes Infect, 2010 Jul 30. PMID 20674764.A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.Toll-like receptor (TLR)-9 genetics and function in sarcoidosis. Veltkamp M, et al. Clin Exp Immunol, 2010 Oct. PMID 20659127.[Toll-like receptor gene polymorphisms and susceptibility to inflammatory bowel disease in Chinese Han and Caucasian populations] Shen XY, et al. Zhonghua Yi Xue Za Zhi, 2010 May 25. PMID 20646633.