

CD289 (TLR9) Rat Anti-Mouse mAb (clone M9.D6), FITC Conjugate

Store at 2°C to 8°C

Pub. No. MAN0009504 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A18404	FITC	25 µg (0.5 mg/mL)	488 nm	519 nm

Clone	M9.D6
Host/Class	Rat IgG2a
Description	CD289 (TLR9) is a ~115-120 kDa member of the Toll-like receptor family of type I transmembrane proteins, characterized by an extracellular domain with leucine-rich repeats and a cytoplasmic domain with homology to the type I IL-1 receptor. At least 12 members of the TLR family have been identified. Members of the TLR family are involved in recognition and response to different microbial components including lipoproteins, peptidoglycans, and nucleic acids, and play important roles in innate immunity and inflammation. CD289 is predominantly expressed as an intracellular protein, and mediates a T-helper-1-like inflammatory response, and proliferation of CD289+ B cells to unmethylated CpG dinucleotides in bacterial DNA. The M9.D6 antibody clone was generated against a peptide derived from the extracellular portion of mouse CD289. It does not detect CD289 on RBC-lysed mouse splenocytes stained for intracellular CD289 by flow cytometry. This may be due to limitations of antigen detection by flow cytometry.
Alternate Names	TLR-9, Toll-like receptor 9
Applications*	FC (intracellular staining of fixed and permeabilized mouse CD289 (TLR9)-transfected 293T cells) ²
Storage Buffer	The reagent is provided in aqueous buffer with 0.09% sodium azide, and may contain carrier protein/stabilizer. CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support .
Storage	Store reagents in the dark at 2° to 8°C. Do not freeze. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Avoid prolonged light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.
Stability	When stored as instructed, expires one year from date of receipt unless otherwise indicated on Certificate of Analysis.
Lot Number	See product label.
References	<ol style="list-style-type: none"> Ahmad-Nejad P, Hacker H, Rutz M, Bauer S, Vabulas RM, Wagner H. 2002. Bacterial CpG-DNA and lipopolysaccharides activate Toll-like receptors at distinct cellular compartments. <i>Eur J Immunol.</i> 32(7): 1958-68. Fukata M, Breglio K, et al. 2008. The Myeloid Differentiation Factor 88 (MyD88) Is Required for CD4+ T Cell Effector Function in a Murine Model of Inflammatory Bowel Disease. <i>J Immunol.</i> 180(3):1886-94.

* Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.








FC = flow cytometry; FUNC = functional assay; ICC = immunocytochemistry; IHC(F) = immunohistochemistry (frozen sample); IHC(P) = immunohistochemistry (paraffin embedded sample); IP = immunoprecipitation; RIA = radioimmunoassay; WB = western blot

For Research Use Only. Not for use in diagnostic procedures.

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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15 November 2013

