

Human TLR9 Antibody

Recombinant Monoclonal Mouse IgG₁ Clone # 26C593R Catalog Number: MAB36583

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human TLR9 in direct ELISAs.		
Source	Recombinant Monoclonal Mouse IgG ₁ Clone # 26C593R		
Purification	Protein A or G purified from cell culture supernatant		
Immunogen	Antibody developed against the KLH-conjugated synthetic peptide corresponding to amino acids Asp250-Asn300 of human TLR9 isoform Accession # Q9NR96		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

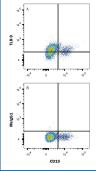
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25 μg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled uwith conjugation.	ising established conjugation methods. No BSA or other carrier proteins that could interfere

Data

Intracellular Staining by Flow Cytometry



Detection of TLR9 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse anti-Human CD19 PE-conjugated Monoclonal Antibody (Catalog # FAB4867P) and (A) Mouse Anti-Human TLR9 Monoclonal Antibody (Catalog # MAB36583) or (B) Mouse IgG1 control antibody (Catalog # MAB002) followed by APC-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). View our protocol for Staining Intracellular Molecules.

FREFARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	

- Stability & Storage
- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
 - 12 months from date of receipt, -20 to -70 °C as supplied.
 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TLR9 (Toll receptor 9; also CD289) is a 145-150 kDa member of the Toll-like receptor family of molecules. It is expressed by colonic epithelium, CD123⁺ plasmacytoid dendritic cells, and transitional B cells, and responds to unmethylated DNA CpG motifs that contain either a GTCGTT sequence (in human), or a GACGTT sequence (in mouse). TLR9 is found in the ER and translocates to either the cell membrane or to lysosomes where it binds bacterial DNA. Precursor human TLR9 is a type I transmembrane protein 1032 amino acids (aa) in length. It possesses a 793 aa extracellular region that contains 26 LRRs (aa 26-818) plus a 193 aa cytoplasmic domain. The full-length 150 kDa form is suggested to be ligand-binding but nonsignaling. The active form is believed to be an 80 kDa cleavage product found in the endosome compartment. There are multiple splice forms. One contains a deletion of aa 2-16, a second possesses an alternate start site at Met58, while a third and fourth show alternative start sites aa 23 and 24 upstream of the standard site. Over aa 64-189, human TLR9 shares 76% aa identity with mouse TLR9.

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