Human TLR7 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 533707

Catalog Number: IC5875R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TLR7 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2A} Clone # 533707
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human TLR7 Met360-Leu516 Accession # Q9NYK1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

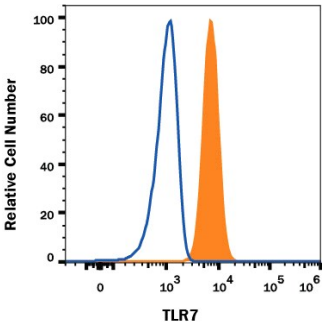
APPLICATIONS

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	0.25-1 µg/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of TLR7 in Ramos Human Cell Line by Flow Cytometry. Ramos human Burkitt's lymphoma cell line was stained with Mouse Anti-Human TLR7 Alexa Fluor® 647-conjugated Monoclonal Antibody (Catalog # IC5875R, filled histogram) or isotype control antibody (Catalog # IC003R, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Toll-like receptor 7 (TLR7) is a 120 kDa (predicted, unglycosylated) type I transmembrane glycoprotein and member of the Toll-like receptor family. Human TLR7 is synthesized as a 1049 amino acid (aa) precursor that contains a 26 aa signal sequence, an 803 aa extracellular domain (ECD), a 21 aa transmembrane sequence, and a 189 aa cytoplasmic domain. Mature human TLR7 is 81% aa identical to mature mouse TLR7. TLR7 is detected in brain, placenta, spleen, stomach, small intestine, lung, and in plasmacytoid pre-dendritic cells. Functionally, TLR7 participates in the innate immune response to microbial agents.

PRODUCT SPECIFIC NOTICES

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bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449