

DESCRIPTION

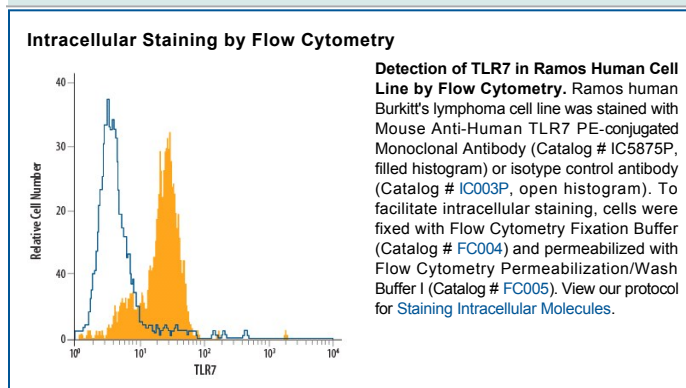
Species Reactivity	Human
Specificity	Detects human TLR7 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 533707
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TLR7 Met360-Leu516 Accession # Q9NYK1
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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	10 μ L/10 ⁶ cells	See Below

DATA



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. <ul style="list-style-type: none"> 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.