

## DESCRIPTION

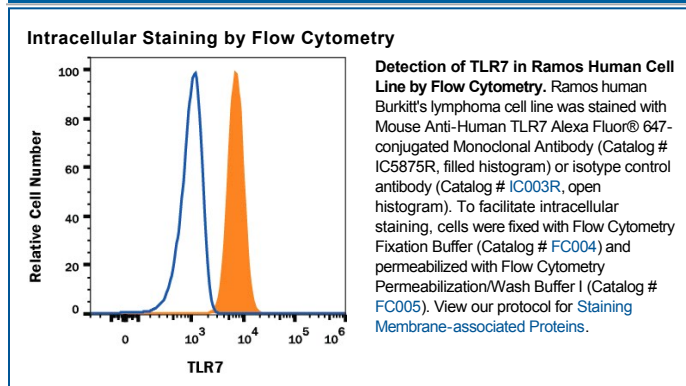
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TLR7 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 533707
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TLR7 Met360-Leu516 Accession # Q9NYK1
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## 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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