

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TLR5 in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) TLR1, 2, 3, 4, 7, 8, recombinant mouse TLR5, 6, or rhTIRAP is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 624915
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TLR5 Ile21-Phe115 Accession # O60602
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Human peripheral blood monocytes

## 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

TLR5 is an ~100 kDa type I transmembrane glycoprotein of the Toll-like receptor family. It is expressed on mucosal epithelia in the gastrointestinal tract, airways, and other areas of potential bacterial contact and recognizes bacterial flagellin. Expression is also reported on monocytes, immature dendritic cells, and CD4<sup>+</sup> T lymphocytes. The region of human TLR5 used as an immunogen includes the first 2 of 16 leucine-rich repeats and shares 72% amino acid identity with mouse and rat TLR5. This region is outside of the flagellin binding region. Flagellin engagement induces dimerization and intracellular signaling via MyD88.

## PRODUCT SPECIFIC NOTICES

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