

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Mouse IgG ₁ Clone # 624915
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TLR5 Ile21-Phe115 Accession # O60602
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human peripheral blood monocytes

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

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⁺ 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.

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