

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 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.