

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TLR10 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) TLR1, 2, 3, 4, 5, 7, 8, 9, recombinant mouse (rm) TLR6, 11, 12, rhIL-1 RI, rhIL-1 RII, rhIL-1 RAcP, rhST2, rhIL-18 R, rhIL-1 Rrp2, rhIL-18 Rβ, rhSIGIRR
Source	Monoclonal Mouse IgG _{2B} Clone # 670719
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TLR10 Asn168-Lys383 Accession # Q9BXR5
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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

Toll-like receptor 10 (TLR10, CD290) is a 91-100 kDa member of the Toll-like receptor family. Human TLR10 is synthesized as a precursor with a 19 amino acid (aa) signal sequence and a 792 aa mature chain. The mature chain constitutes a single-pass type I transmembrane protein. The extracellular domain (ECD) extends from aa 20-576 and the cytoplasmic region consists of aa 598-811. Human TLR10 contains 15 leucine-rich repeats plus eight potential sites for N-linked glycosylation. In addition, it contains one cytoplasmic TIR domain. Functionally, TLR10 is involved in the innate immune response to microbial agents. Specifically, it acts via MYD88 and TRAF6, which leads to NF-kappa-B activation, cytokine secretion, and an inflammatory response. Human TLR10 shares 71% aa sequence identity with rat TLR10.

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.