Human TLR10 Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 670719

Catalog Number: FAB6619U

100 µg

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	*E. coli*-derived recombinant human TLR10 Asn168-Lys383 Accession # Q9BXR5
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475