

DESCRIPTION

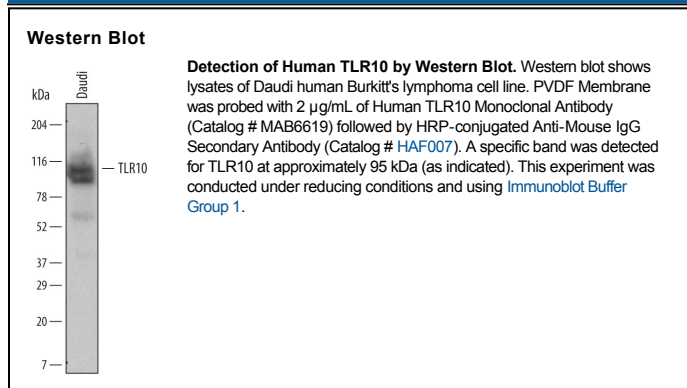
Species Reactivity	Human
Specificity	Detects human TLR10 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) TLR1, 2, 3, 4, 5, 7, 8, 9, recombinant mouse (rm) TLR6, 11, 12, rhIL-1 RI, rhIL-1 RII, rhIL-1 RAcP, rhST2, rhIL-18 R, rhIL-1 Rrp2, rhIL-18 R β , rhSIGIRR, rhIL-1 RAPL1, rhTIGIRR, rhMD-1, rhMD-2, rhTIRAP, or rmRP105 is observed.
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
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

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
Western Blot	2 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.