



Anti-TLR2 polyclonal antibody [Biotin] (DPABY-481)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	TLRs make up a family of pattern recognition receptors that play important roles in the innate immune response. Broad classes of pathogens (e.g. viruses, bacteria, and fungi) constitutively express a set of mutation-resistant molecules called pathogen-associated molecular patterns (PAMPs). These microbial molecular markers may be composed of proteins, carbohydrates, lipids, nucleic acids and/or combinations thereof. Individual TLRs recognize distinct pathogen-associated PAMPs, initiating signaling cascades that promote the immune response. Structurally, TLRs are type I transmembrane receptors that possess varying numbers of extracellular N-terminal leucine-rich repeat (LRR) motifs, followed by a cysteine-rich region, a TM domain, and an intracellular Toll/IL-1 R (TIR) motif. The TIR motif is common to the larger IL-1 R/TLR superfamily.
Specificity	Detects human TLR2 in ELISAs and Western blots. In sandwich ELISAs, less than 1% cross-reactivity with recombinant mouse TLR2 and less than 0.3% cross-reactivity with recombinant human (rh) TLR3 and rhTLR4 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TLR2. Glu21-Leu590 Accession Number O60603
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, Flow Cytometry, ELISA Detection (Matched Pair)

Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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.

GENE INFORMATION

Gene Name	TLR2 toll-like receptor 2 [Homo sapiens (human)]
Official Symbol	TLR2
Synonyms	TLR2; toll-like receptor 2; TIL4; CD282; toll/interleukin 1 receptor-like 4; toll/interleukin-1 receptor-like protein 4;
Entrez Gene ID	7097
Protein Refseq	NP_003255
UniProt ID	B3KWR9
Chromosome Location	4q32
Pathway	Activated TLR4 signalling; Amoebiasis; Beta defensins; Chagas disease (American trypanosomiasis); Defensins; Hepatitis B; Herpes simplex infection; Immune System;
Function	diacyl lipopeptide binding; lipopolysaccharide receptor activity; lipoteichoic acid binding; peptidoglycan binding; protein binding; protein heterodimerization activity; receptor activity; signaling pattern recognition receptor activity; transmembrane sig