

# Immunotag™ TLR2 Antibody

| Antibody Specification |                                                                                                                                                                                                                                                                                                               |
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| Catalog No.            | ITA7079                                                                                                                                                                                                                                                                                                       |
| Product Description    | Immunotag™ TLR2 Antibody                                                                                                                                                                                                                                                                                      |
| Size                   | 100 µg, 200 µg                                                                                                                                                                                                                                                                                                |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                                                                                                                                                                 |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.                                                                                                                                            |
| Target Protein         | TLR2                                                                                                                                                                                                                                                                                                          |
| Clonality              | Polyclonal                                                                                                                                                                                                                                                                                                    |
| Storage/Stability      | -20°C/1 year                                                                                                                                                                                                                                                                                                  |
| Application            | WB,IHC,ELISA                                                                                                                                                                                                                                                                                                  |
| Recommended Dilution   | WB 1:500-1:2000 IHC 1:50-1:200                                                                                                                                                                                                                                                                                |
| Concentration          | 1 mg/ml                                                                                                                                                                                                                                                                                                       |
| Reactive Species       | Human,Mouse,Rat                                                                                                                                                                                                                                                                                               |
| Host Species           | Rabbit                                                                                                                                                                                                                                                                                                        |
| Immunogen              | A synthesized peptide derived from human TLR2                                                                                                                                                                                                                                                                 |
| Specificity            | TLR2 Antibody detects endogenous levels of total TLR2                                                                                                                                                                                                                                                         |
| Purification           | The antiserum was purified by peptide affinity chromatography.                                                                                                                                                                                                                                                |
| Form                   | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt                                                                                                                                                   |
| Gene Name              | TLR2                                                                                                                                                                                                                                                                                                          |
| Accession No.          | O60603                                                                                                                                                                                                                                                                                                        |
| Alternate Names        | CD282; CD282 antigen; TIL 4; TIL4; TLR 2; TLR2; TLR2_HUMAN; Toll like receptor 2; Toll like receptor 2 precursor; Toll-like receptor 2; Toll/interleukin 1 receptor like 4; Toll/interleukin 1 receptor like protein 4; Toll/interleukin receptor like protein 4; Toll/interleukin-1 receptor-like protein 4; |

## Antibody Specification

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| Description               | <p>Cooperates with LY96 to mediate the innate immune response to bacterial lipoproteins and other microbial cell wall components. Cooperates with TLR1 or TLR6 to mediate the innate immune response to bacterial lipoproteins or lipopeptides (PubMed:21078852, PubMed:17889651). Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. May also activate immune cells and promote apoptosis in response to the lipid moiety of lipoproteins (PubMed:10426995, PubMed:10426996). Recognizes mycoplasmal macrophage-activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble modulin (PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR6 (PubMed:11441107). Stimulation of monocytes in vitro with M.tuberculosis PstS1 induces p38 MAPK and ERK1/2 activation primarily via this receptor, but also partially via TLR4 (PubMed:16622205). MAPK activation in response to bacterial peptidoglycan also occurs via this receptor (PubMed:16622205). Acts as a receptor for M.tuberculosis lipoproteins LprA, LprG, LpqH and PstS1, some lipoproteins are dependent on other coreceptors (TLR1, CD14 and/or CD36); the lipoproteins act as agonists to modulate antigen presenting cell functions in response to the pathogen (PubMed:19362712). M.tuberculosis HSP70 (dnaK) but not HSP65 (groEL-2) acts via this protein to stimulate NF-kappa-B expression (PubMed:15809303). Recognizes M.tuberculosis major T-antigen EsxA (ESAT-6) which inhibits downstream MYD88-dependent signaling (shown in mouse) (By similarity). Forms activation clusters composed of several receptors depending on the ligand, these clusters trigger signaling from the cell surface and subsequently are targeted to the Golgi in a lipid-raft dependent pathway. Forms the cluster TLR2:TLR6:CD14:CD36 in response to diacylated lipopeptides and TLR2:TLR1:CD14 in response to triacylated lipopeptides (PubMed:16880211). Required for normal uptake of M.tuberculosis, a process that is inhibited by M.tuberculosis LppM (By similarity).</p> |
| Cell Pathway/<br>Category | Primary Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Protein MW                | 90kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Usage                     | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |