

## Monoclonal Antibody against TLR2 (Toll-like receptor 2)/CD282



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## Monoclonal Antibody against TLR2 (Toll-like receptor 2)/CD282

**Catalog No :** IMG-6320A  
**Formulation :** 100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.  
**Isotype :** Mouse IgG1  
**Clone :** T2.5  
**Purification :** Protein G Chromatography  
**Species React :** Human, Mouse  
**Host :** Mouse

**Application**  
Flow (Cell Surface): 0.25-1.0 µg/10<sup>6</sup> cells  
IHC (frozen): reported in literature  
IP: reported in literature  
FA (Neutralization): reported in literature  
**Storage**  
Store at 4°C, stable for 6 months. For long-term storage, store at -20°C.

### Background

The Toll-like receptors (TLRs) in mammals comprise a family of transmembrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and an IL-1 receptor motif in the cytoplasmic domain. Like its counterparts in *Drosophila*, TLRs signal through adaptor molecules (1). The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition (2). Ten human homologs of TLRs (TLR1-10) have been described (3). TLR2 is differentially expressed in human cells. TLR2 is expressed in tonsils, lymph nodes, and appendices, activated B-cells in germinal centers. CD14+ monocytes expressed the highest level of TLR2 followed by CD15+ granulocytes, and CD19+ B-cells, CD3+ T-cells, and CD56+ NK cells did not express TLR2. The expression of TLR2 in different cell types is regulated by different immune response modifiers. For example, LPS, GM-CSF, IL-1, and IL-10 up regulates TLR2 whereas IL-4, IFN-gamma, and TNF down regulate TLR2 expression in monocytes (4).

### Application Notes

This antibody was raised against the extracellular domain of mouse TLR2. It will cross-react with human TLR2.

### Related Products

- 20102 [Goat Anti-Mouse IgG (H+L)-FITC Conjugate]
- 20103 [Goat Anti-Mouse IgG (H+L) PE conjugated secondary antibody]
- IMG-5019A-1 [Monoclonal Antibody to GAPDH - Loading Control]
- IMG-5019A-2 [Monoclonal Antibody to GAPDH - Loading Control]
- IMG-2201 [Pam3CSK4, TLR1 and TLR2 Ligand]
- IMG-2206 [MALP-2, TLR6/TLR2 ligand]

### Reference

- Chuang TH and Ulevitch RJ. *Eur Cytokine Netw* 11(3): 372-378 (2000).
- Muzio M, Natoli G, Saccani S, Levrero M, and Mantovani A. *J. Exp. Med.* 187: 2097-2101 (1998).
- Medzhitov R and Janeway CA. *Cell* 91: 295-298 (1997).
- Chuang TH and Ulevitch RJ. *Biochim. Biophys. Acta* 1518 (1-2): 157-161 (2001).

### Product Citations

- IL-17 induces monocyte migration in rheumatoid arthritis. Shahrara S, S Pickens, A Dorfleutner, R Pope. *Journal of Immunology* 182: 3884-3891 (2009). **FA (neutralization), mouse monocytes, Fig. 6E.**

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