

**Rabbit Anti-CD282/Toll-like Receptor 2 Polyclonal: RC0410**

**Intended Use:** For Research Use Only

**Description:** This antibody reacts with human Toll-like receptor 2 (TLR2). It is a member of the Toll-like receptor (TLR) family, which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from *Drosophila* to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This gene is expressed most abundantly in peripheral blood leukocytes, and mediates host response to Gram-positive bacteria and yeast via stimulation of NF-kappaB.

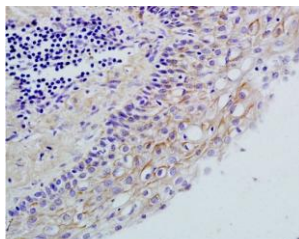
**Specifications:**

Clone: Polyclonal  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human, mouse, rat, bovine  
Localization: Membrane  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, Flow Cyt, ICC/IF, WB  
Package:

Description	Catalog No.	Size
CD282/Toll-like Receptor 2 Concentrated	RC0410	1 ml

**IHC Procedure\*:**

Positive Control Tissue: Normal peripheral blood cells. Dendritic cells, macrophage & monocytes in tonsil  
Concentrated Dilution: 10-50  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual  
\* Result should be confirmed by an established diagnostic procedure.



FFPE rat ovary stained with anti-CD282 using DAB

**References**

1. Argon Mediates Anti-Apoptotic Signaling and Neuroprotection via Inhibition of Toll-Like Receptor 2 and 4. Ulbrich F, et al. PLoS One. 2015 Dec 1;10(12):e0143887, 2015.
2. Toll-like receptor 2 (TLR2) induces migration and invasive mechanisms in rheumatoid arthritis. McGarry T, et al. Arthritis Res Ther. 2015 Jun 9;17:153, 2015.
3. Expression of toll-like receptors 2, 4 and nuclear factor kappa B in mucosal lesions of human otitis: pattern and relationship in a clinical immunohistochemical study. Jesic S, et al. Ann Otol Rhinol Laryngol. 2014 Jun;123(6):434-41, 2014.
4. Toll-like receptor 2 signaling protects mice from tumor development in a mouse model of colitis-induced cancer. Lowe EL, et al. PLoS One. 2010 Sep 27;5(9):e13027, 2010.

Doc. 100-RC0410  
Rev. A