**Rabbit Anti-CD180/RP105 Polyclonal: RC0184**

**Intended Use:** For Research Use Only

**Description:** The CD180 or RP105, BGP95, LY64) is a type I membrane glycoprotein of Toll-like receptor (TLR) family. Its cytoplasmic tail is short and unlike the TLRs, it lacks the TIR domain. CD180 expression depends on the coexpression of its helper molecule, MD-1, and mirrors that of TLR4 on antigen-presenting cells. CD180 regulates recognition of LPS and signaling in B cells, via interacting directly with the TLR4 signaling complex, inhibiting its ability to bind microbial ligands. Ligation of CD180 by monoclonal antibodies leads to B cell activation, upregulation of CD80/CD86, and increase in cell size.

# Specifications

Clone: Polyclonal

Source: Rabbit

Isotype: IgG

Reactivity: Human

Localization: Membrane

Formulation: Antibody PBS pH 7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)

Storage: Store at 2°- 8°C

Applications: IHC, WB

Package:

|  |  |  |
| --- | --- | --- |
| **Description** | **Catalog No.** | **Size** |
| CD180/RP105 Polyclonal Concentrated | RC0184 | 1 ml |

# IHC Procedure\*

Positive Control Tissue: Spleen

Concentrated Dilution: 25-100

Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 min Pressure Cooker or 30-60 min 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 human spleen stained with anti-CD180 using DAB

# References:

1. Discordant frequencies of tissue-resident and circulating CD180-negative B cells in chronic rhinosinusitis. Miljkovic D, et al. Int Forum Allergy Rhinol. Jun;7(6):609-614, 2017.
2. TLR4 Accessory Molecule RP105 (CD180) Regulates Monocyte-Driven Arteriogenesis in a Murine Hind Limb Ischemia Model. Bastiaansen AJ, et al. PLoS One 9:e99882, 2014. TLR accessory molecule RP105 (CD180) is involved in post-interventional vascular remodeling and soluble RP105 modulates neointima formation. Karper JC, et al. PLoS One. Jul 2;8(7):e67923, 2013.
3. RP105 is associated with MD-1 and transmits an activation signal in human B cells. Miura Y, et al. Blood 92:2815-22, 1998.

Doc. 100-RC0184

Rev. A