

## 10-3513: Monoclonal Antibody to Human CD180 (Clone-MHR73)(Discontinued)

**Clonality :** Monoclonal  
**Clone Name :** MHR73  
**Application :** Functional Assay,IP,IHC,FACS  
**Reactivity :** Human  
**Gene :** CD180  
**Gene ID :** 4064  
**Uniprot ID :** Q99467  
**Format :** Purified  
**Isotype :** Mouse IgG1

### Description

The monoclonal antibody 10-3513 reacts with human RP105 (CD180). RP105 is a type 1 transmembrane protein of 105 kDa with extracellular leucine-rich repeats (LLRs) and a short cytoplasmic tail. RP105, assigned as CD180, is similar to Drosophila Toll in the extracellular LLRs. RP105 expression is largely restricted to immune cells including CD19+ B cells and macrophages. Histological studies showed that RP105 is expressed mainly on mature B cells in mantle zones. Antibody-mediated (MHR73) cross-linking of RP105 induces resistance against irradiation-induced apoptosis, B-cell proliferation, and up-regulation of a costimulatory molecule CD80, revealing RP105 as a potent regulator of B-cell activation. In this context it is important to note that RP105 is associated with MD1, and that it mediates B-cell surface expression and LPS recognition and signalling in cooperation with TLR4. MD-1 seems to be requisite for efficient expression of RP105.

### Product Info

**Amount :** 1.0 mg / 500 µg  
**Content :** 0.5 mg, 0.2 µm filtered antibody solution in PBS containing 0.1% bovine serum albumin.  
**Storage condition :** Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

### Application Note

Immunohistochemical analysis - 1:50-1:100 dilution

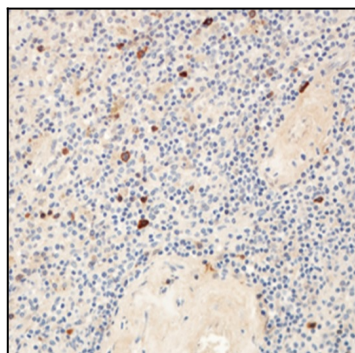


Figure-1: Immunohistochemical analysis of Human CD180 (Clone : MHR73) in human Spleen tissue by using 1:50 dilution of anti-CD180 antibody.