

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

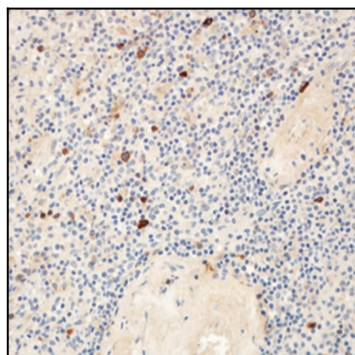


Figure-1: Immunohistochemical analysis of Human CD180 (Clone : MHR73) in human Spleen tissue by using 1:50 dilution of anti-CD180 antibody.