



CD180 Monoclonal Antibody

Catalog No	YP-mAb-14075
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CD180
Immunogen	Synthesized peptide derived from CD180 antigen at AA range: 221-270
Specificity	CD180 Monoclonal Antibody detects endogenous levels of CD180 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CD180;CD180 antigen;CD180 molecule;LY64;Ly78;Lymphocyte antigen 64; RP105;Radioprotective 105 kDa protein
Observed Band	75kD
Calculated Molecular Weight	75kD
Cell Pathway	Cell membrane; Single-pass type I membrane protein.
Tissue Specificity	Expressed mainly on mature peripheral B cells. Detected in spleen, lymph node and appendix. Not detected in pre-B and -T cells.
Function	disease:Decreased expression of LY64 has been shown in systemic lupus erythematosus (SLE). The loss of LY64 is associated with B-cell activation and increased disease activity in SLE patients.,function:May cooperate with MD-1 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS) in B-cells. Leads to NF-kappa-B activation. Also involved in the life/death decision of B-cells.,similarity:Belongs to the Toll-like receptor family.,similarity:Contains 17 LRR (leucine-rich) repeats.,subunit:Binds to MD-1.,tissue specificity:Expressed mainly on mature peripheral B cells. Detected in spleen, lymph node and appendix. Not detected in pre-B and -T cells.,



Background

CD180 is a cell surface molecule consisting of extracellular leucine-rich repeats (LRR) and a short cytoplasmic tail. The extracellular LRR is associated with a molecule called MD-1 and form the cell surface receptor complex, RP105/MD-1. It belongs to the family of pathogen receptors, Toll-like receptors (TLR). RP105/MD1, by working in concert with TLR4, controls B cell recognition and signaling of lipopolysaccharide (LPS), a membrane constituent of Gram-negative bacteria. [provided by RefSeq, Jul 2008],

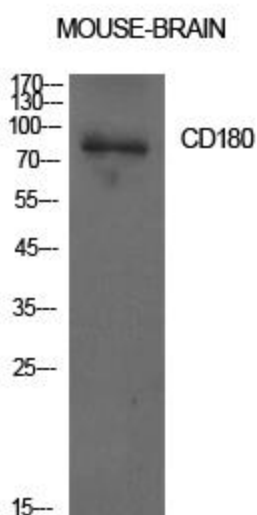
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CD180 Monoclonal Antibody