



Anti-CD180 monoclonal antibody, clone RP/14 (CABT-47229RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rat anti Mouse CD180 antibody, clone RP/14 recognizes mouse CD180, also known as Lymphocyte antigen 78 or Radioprotective 105 kDa protein encoded by the RP105 gene. Mouse CD180 is a 661 amino acid ~105kDa single pass type 1 transmembrane glycoprotein, containing multiple leucine rich repeats within LRRCT and LRRNT domains. CD180 belongs to the toll-like receptor family and is primarily expressed in mature peripheral B cells and is thought to play a role in the innate immune response to bacterial lipopolysaccharide, through co-operation with MD-1 and TLR4 (UniProt: Q62192). Cross linking of CD180 with clone RP/14 has been reported to induce resistance against irradiation induced apoptosis, B-cell proliferation and up-regulation of a co-stimulatory molecule B7.2. Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

Specificity	CD180
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Mouse
Clone	RP/14
Conjugate	Unconjugated
Applications	FC; FA; IP; WB
Format	Purified IgG - liquid
Size	250 µg
Preservative	See individual product datasheet

Storage	in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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GENE INFORMATION

Gene Name	Cd180 CD180 antigen [Mus musculus (house mouse)]
Official Symbol	CD180
Synonyms	CD180; CD180 antigen; Ly78; RP105; F630107B15; ly-78; lymphocyte antigen 78; radioprotective 105 kDa protein;
Entrez Gene ID	17079
Protein Refseq	NP_032559
UniProt ID	Q62192
Chromosome Location	13 D1; 13
Pathway	Immune System; Innate Immune System; Toll Like Receptor 4 (TLR4) Cascade; Toll-Like Receptors Cascades;