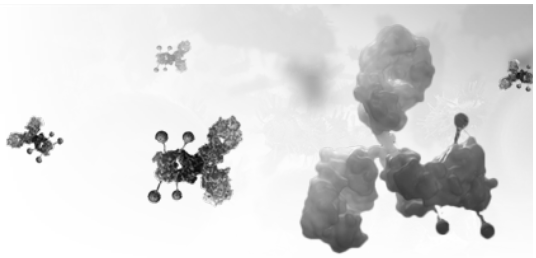

Anti-CD80 monoclonal antibody, clone RM80 [R-PE] (CABT-46719RM)

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

PRODUCT INFORMATION

Product Overview	Rat anti Mouse CD80 antibody, clone RM80 recognizes mouse CD80 (B7-1), a 60kD cell surface glycoprotein which is a member of the CD28/B7 family. In mice, CD80 is expressed on monocytes, peritoneal macrophages and dendritic cells, and expression may be significantly increased upon B lymphocytes by LPS and by IL-4. CD80 has been identified as a ligand for CD28 and cytotoxic T-lymphocyte antigen-4 (CTLA-4), two structurally similar molecules expressed on T cells. CD28 and CTLA4 are two receptors that have essential but opposing functions in T-cell stimulation. The Interaction of CD80 with CD28 stimulates and sustains T cell responses, whereas the interaction of CD80 with CTLA4 is reported to inhibit T-cell responses. Flow Cytometry Use 10ul of the suggested working dilution to label 1x106 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.
Specificity	CD80
Immunogen	BCL1 cells expressing CD80
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Mouse
Clone	RM80
Conjugate	PE
Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

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Size	100 tests
Preservative	0.09% Sodium Azide
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Cd80 CD80 antigen [Mus musculus (house mouse)]
Official Symbol	CD80
Synonyms	CD80; CD80 antigen; B71; Ly53; TSA1; Cd28l; Ly-53; MIC17; T-lymphocyte activation antigen CD80; B7 protein; activation B7-1 antigen;
Entrez Gene ID	12519
Protein Refseq	NP_033985
UniProt ID	Q00609
Chromosome Location	16 B5; 16 26.86 cM
Pathway	Adaptive Immune System; Allograft rejection; Autoimmune thyroid disease; CD28 co-stimulation; CD28 dependent PI3K/Akt signaling; CD28 dependent Vav1 pathway; CTLA4 inhibitory signaling; Cell adhesion molecules (CAMs);
Function	protein binding;

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