

PRODUCT INSERT

RAT anti-MOUSE CD19

Product Code	Form	Volume	Excitation (nm)	Peak Emission (nm)	Matching Isotype Controls
RM7700	Purified	1.0 ml	N/A	N/A	Rat IgG2a Purified Code R2a00
RM7701	FITC	1.0 ml	488	525	Rat IgG2a FITC Code R2a01
RM7701-3	FITC	3.0 ml			
RM7704	R-PE	0.5 ml	488	575	Rat IgG2a R-PE Code R2a04
RM7704-3	R-PE	3.0 ml			
RM7717	PE-TR [†]	0.5 ml	488	615	Rat IgG2a PE-TR Code R2a17
RM7706	TC [‡]	0.5 ml	488	670	Rat IgG2a TC Code R2a06
RM7718	PE-Cy [®] 5.5	0.5 ml	488	694	Rat IgG2a PE-Cy [®] 5.5 Code R2a18
RM7705	APC	0.5 ml	600-650	660	Rat IgG2a APC Code R2a05
RM7719	APC-Cy [®] 5.5	0.5 ml	600-650	694	Rat IgG2a APC-Cy [®] 5.5 Code R2a19

PRODUCT DESCRIPTION

Rat monoclonal antibody to mouse CD19

Clone: 6D5

Isotype: Rat IgG2a

Lot No: See label **Expiration:** See label

Buffer: Phosphate buffered saline (PBS)

Preservatives: 0.1% *sodium azide*. Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Solutions containing sodium azide should be disposed of properly.

Stabilizer: For conjugated products only, a highly purified grade of BSA has been added as a stabilizing protein.

STORAGE & HANDLING

Store reagents at 2-8°C. Light exposure should be avoided with fluorochrome conjugated reagents. Use dim light during handling, incubation with cells and prior to analysis. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted.

PRODUCT CHARACTERIZATION

Antigen Specificity: The 6D5 monoclonal antibody (mAb) reacts with CD19, a co-receptor protein in the B-cell co-receptor complex that includes CD21 (CR2) and CD81 (TAPA-1)^{1,2}. CD19 is an important B cell development marker appearing in early B-cell progenitor cells that is known to be important in the activation of mature cells². An application of the 6D5 mAb is immunostaining for flow cytometry.

PRODUCT QUALITY CONTROL

Every lot is tested by flow cytometry using freshly harvested mouse splenocytes. Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

REFERENCES

1. Krop, I., A. L. Shaffer, D. T. Fearon, and M. S. Schlissel. 1996. The signaling activity of murine CD19 is regulated during B cell development. *J. Immunol.* 157: 48-56.
2. Fearon, D. T. 1993. The CD19/CR2/TAPA-1 complex, CD45 and signaling by the antigen receptor of B lymphocytes. *Curr. Opin. In Immunol.* 5: 341-348.

[†] TR, Texas Red[®]

[‡] TC, TRI-COLOR[®], PE-Cy[®]5

The efficiency of energy transfer in tandem dyes can be significantly decreased by exposure to visible light. We recommend that longer wavelength fluorochrome conjugates, e.g. PE-Cy[®]7, PE-Alexa Fluor[®] 700, be protected from light during staining and while awaiting analysis, e.g. cover with aluminum foil.

FIX & PERM[®] and **COMBI-IC** reagents are produced for Invitrogen Laboratories by An Der Grub Bio Research GmbH, Austria.

The Texas Red[®], Alexa Fluor[®] and Pacific Blue[®] dye conjugates in this product are sold under license from Molecular Probes, Inc., for research use only or as analyte specific reagents, except for use in combination with microarrays or high content screening, and are covered by pending and issued patents.

Cy[®] is a trademark of GE/Amersham Biosciences.

Explanation of symbols			
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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