invitrogen™ | MOLECULAR PROBES®

PRODUCT INSERT

RAT anti-MOUSE CD16/32

Product Code	Form	Volume	Matching Isotype Controls	
MFCR00	Purified	0.5 ml		
MFCR00-4	Purified	2.0 ml		
MFCR04	R-PE	1.0 ml	Rat IgG2b R-PE	Code R2b04

PRODUCT DESCRIPTION:

Rat monoclonal antibody to mouse CD16/32

Clone: FCR-4G8

Isotype: Rat IgG2b

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 agent.

STORAGE & HANDLING:

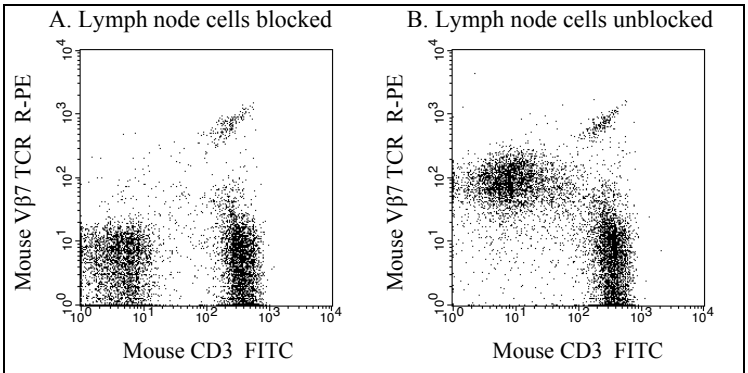
Store reagents at 2-8°C. Light exposure should be avoided with fluorochrome conjugated reagents. Use dim light during handling, incubation with cells and prior to analysis. It is recommended that cells be analyzed within 18 hours of staining. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted.

PRODUCT CHARACTERIZATION:

Antigen Specificity: The FCR-4G8 monoclonal antibody reacts with mouse CD16/CD32 (FcγIII/II receptors) which are Fc receptors present on macrophages, NK cells, monocytes, lymphocytes, and dendritic cells. The FCR-4G8 monoclonal antibody can be used to block Fc receptor mediated binding of immunoglobins to the FcγIII and FcγII receptors.

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.



Decreased background staining of mouse Vβ7 TCR mAb using purified anti-mouse CD16/32 (Cat.# MFCR00).

Briefly, one million cells from a suspension of C57BL/6 lymph node cells were simultaneously stained with 0.5 µg of anti-mouse CD3 conjugated to FITC (Cat.# HM3401) and 0.25 µg of anti-mouse Vβ7 TCR conjugated to PE (Cat.# RM4404) either with preblocking of Fc receptors for 10 minutes using 0.25 µg of purified anti-mouse CD16/32 (Fig. A) or without preblocking of Fc receptors (Fig. B). Note the decreased staining of Vβ7 TCR on CD3 negative cells when Fc receptors are blocked.

Note: The flow cytometric data shown above may not necessarily have been generated using the enclosed lot of reagent. For this reason, and due to differences in flow cytometers and cytometer settings, results may vary from those illustrated above. It is suggested that investigators titrate reagents to determine optimal conditions for use in their systems.

Explanation of symbols

Symbol	Description	Symbol	Description
REF	Catalogue Number	LOT	Batch code
RUO	Research Use Only	IVD	*In vitro* diagnostic medical device
	Use by		Temperature limitation
	Manufacturer	EC REP	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.		

For research use only. CAUTION: Not for human or animal therapeutic or diagnostic use.

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