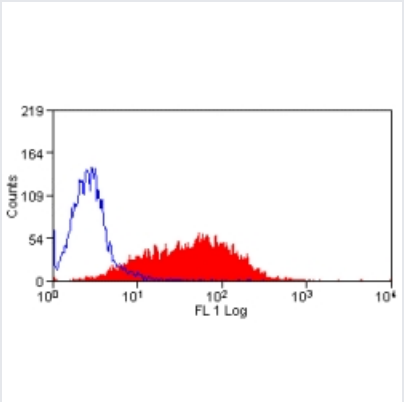
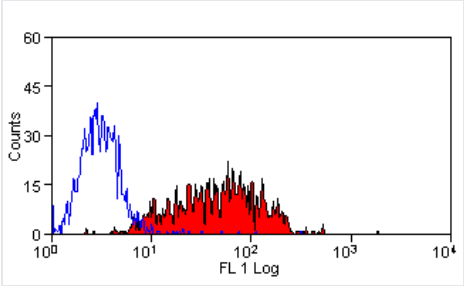
CD83 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

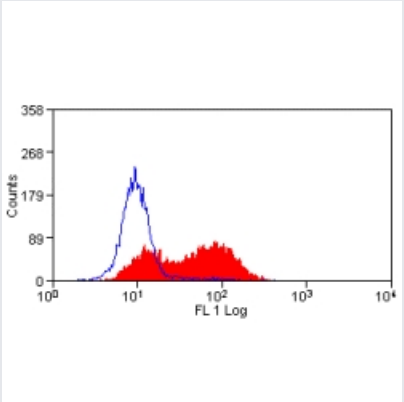
Product Name	CD83, Monoclonal Antibody
Full Product Name	RAT ANTI MOUSE CD83:FITC
Product Gene Name	anti-CD83 antibody
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	3D11
Host	Rat
Form/Format	FITC Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from the date of despatch.
Molecular Weight	21,313 Da
3D Structure	ModBase 3D Structure for O88324
Perservative Stabilisers	0.09% Sodium Azide (NaN3) 1% Bovine Serum Albumin Preparation||Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Fusion Partners	Spleen cells from immunised rats were fused with cells of the P3X63.Ag8.653 mouse myeloma cell line. Buffer Solution||Phosphate buffered saline
Target Species	Mouse
Applications Tested/Suitable for anti-CD83 antibody	Flow cytometry (FC/FACS)
Application Notes for anti-CD83 antibody	Flow Cytometry: Use 10ul of the suggested working dilution to label 1x106 cells in 100ul. **Flow Cytometry:** Minimum Dilution: Neat; Maximum Dilution: 1/10
Related Product Information for anti-CD83 antibody	Rat anti Mouse CD83 antibody, clone 3D11 recognizes murine CD83, a 45kD type 1 glyoprotein belonging to the immunoglobulin superfamily. Originally described as a maturation marker for dendritic cells, CD83 plays a role in the regulation of antigen presentation, thymic T-cell maturation, B-cell function and peripheral T-cell activation. Activated dendritic cells and B-cells release a soluble form of CD83 that is reported to have an immunosuppressive effect, suggesting a therapeutic role for sCD83 in the regulation of immune disorders.
Other Notes	Small volumes of anti-CD83 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD83 purchase	MBS219348 is an antibody targeting CD83. Also known as RAT ANTI MOUSE CD83:FITC. Host: Rat.



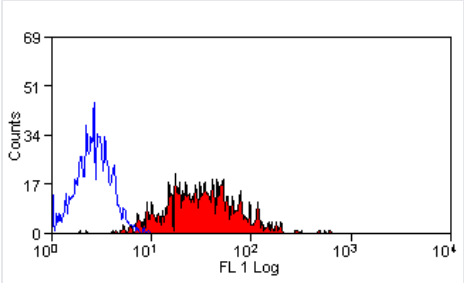
Testing Data of anti-CD83 antibody
Staining of LPS stimulated mouse spleen cells with Rat anti Mouse CD83 (MBS217378)



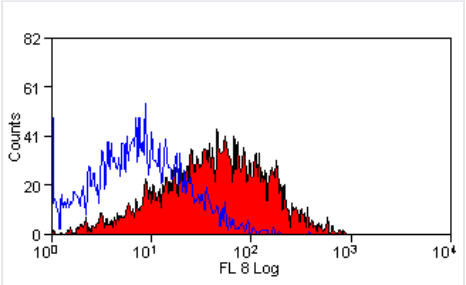
Testing Data of anti-CD83 antibody
Staining of LPS stimulated mouse spleen cells with Rat anti Mouse CD83:Alexa Fluor 488 (MBS217378A488)



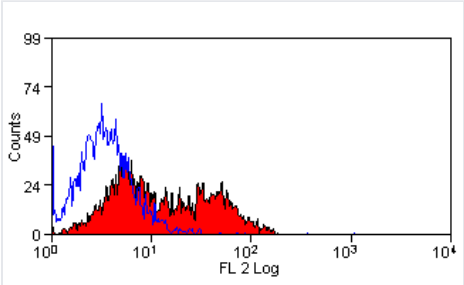
Testing Data of anti-CD83 antibody
Staining of LPS stimulated mouse spleen cells with Rat anti Mouse CD83 (MBS217379)



Testing Data of anti-CD83 antibody
Staining of LPS stimulated mouse spleen cells with Rat anti Mouse CD83:FITC



Testing Data of anti-CD83 antibody
Staining of LPS stimulated mouse spleen cells with Rat anti Mouse CD83:Alexa Fluor 647 (MBS217378A647)



Testing Data of anti-CD83 antibody
Staining of LPS stimulated mouse spleen cells with Rat anti Mouse CD83:RPE (MBS219486)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD83. It may not necessarily be applicable to this product.

NCBI GI #	6753356
NCBI GeneID	12522
NCBI Accession #	NP_033986.1
UniProt Primary Accession #	O88324
UniProt Related Accession #	O88324
GenBank Nucleotide #	NM_009856.3
NCBI Official Full Name	CD83 antigen isoform 1

NCBI Official Synonym Full Names	CD83 antigen
NCBI Official Symbol	Cd83
UniProt Protein Name	CD83 antigen
UniProt Synonym Protein Names	CD_antigen: CD83
Protein Family	CD83 antigen
UniProt Gene Name	Cd83
UniProt Synonym Gene Names	mCD83
UniProt Entry Name	CD83_MOUSE
NCBI Protein Information	CD83 antigen; mCD83
UniProt Comments for CD83	CD83: May play a significant role in antigen presentation or the cellular interactions that follow lymphocyte activation. Protein type: Membrane protein, integral Cellular Component: membrane; integral to membrane; external side of plasma membrane Biological Process: negative regulation of interleukin-4 production; positive regulation of interleukin-2 production; positive regulation of CD4-positive, alpha beta T cell differentiation; response to organic cyclic substance; positive regulation of interleukin-10 production
Research Articles on CD83	**1.** CD83 differentially modulates follicular and marginal zone B cell responses
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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