

Mouse anti-Human CD39 Monoclonal Antibody | anti-CD39 antibody

MOUSE ANTI HUMAN CD39: Low Endotoxin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50264	Mouse	Human	Immunofluorescence, Functional Assay, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

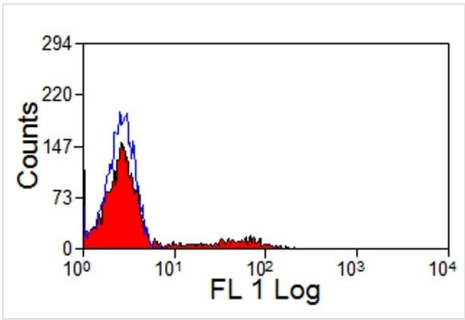
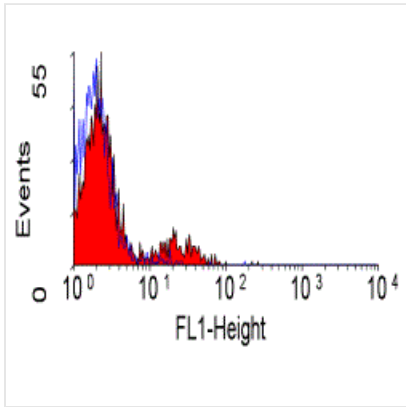
CD39; Monoclonal Antibody; MOUSE ANTI HUMAN CD39: Low Endotoxin; anti-CD39 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	A1
Specificity	CD39
Form/Format	Low Endotoxin Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	510
Applicable Applications for anti-CD39 antibody	IF (Immunofluorescence), FA (Functional Assay), FCM/FACS (Flow Cytometry)
Target Species	Human
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Endotoxin Level	<0.1 EU/ug
Immunogen	PHA activated human lymphocytes.
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Preparation and Storage	Store at -20 degree C only. This product should be stored undiluted. 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. Shelf Life: 18 months from date of despatch.

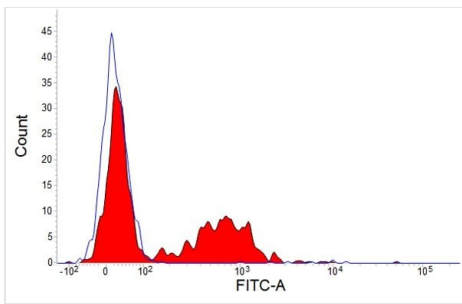


Application Data
Published customer image: Mouse anti human CD39, clone A1 used for the evaluation of CD39 expression on cultured mononuclear cells by flow cytometry. Image caption: Phenotype and functional analysis of Foxp3hi and Foxp3int T cells in direct co-cultures or separated through a transwell. T cells from direct or transwell-separated iRBC co-cultures were harvested on day 6 of culture and either re-stimulated with PMA/ionomycin for intracellular cytokine staining, or phenotyped directly. Foxp3hi:Foxp3int ratios and the percentage of IFNγ or IL-4 producing cells within the CD25hiFoxp3int population were determined for 5 donors. Values for transwell-separated T cells (black bars) are expressed as fold change following normalization onto values in direct co-cultures (white bars) for each donor (Mean±SEM) and compared by paired Student's t-test (A). Freshly isolated CD25-Foxp3- and CD25+Foxp3+ CD4+ T cells (day 0) and CD4+CD25-Foxp3-, Foxp3int and Foxp3hi CD4+CD25hi T cells from direct or transwell separated cultures (day 6) from 3 donors were phenotyped for a wide range of markers, and expression levels for each surface marker within each population were normalized on isotype control staining, when analysed as median fluorescence intensity (MFI). Expression levels of surface markers on CD4+CD25-Foxp3- cells were comparable between conditions for each donor (data not shown). Thus, to compare the phenotype of day 0 CD25+Foxp3+ nTregs, and day 6 induced CD25hiFoxp3int and CD25hiFoxp3hi cells (black bars), expression levels are expressed as fold change (Mean±SEM) compared to CD4+CD25-Foxp3- cells (white bars, relative level = 1) for each donor and condition (B). Experiments were set up with a 2:1 iRBC:PBMC ratio. From: Scholzen A, Mittag D, Rogerson SJ, Cooke BM, Plebanski M (2009) Plasmodium falciparum -Mediated Induction of Human CD25hiFoxp3hi CD4 T Cells Is Independent of Direct TCR Stimulation and Requires IL-2, IL-10 and TGFβ1. PLoS Pathog 5(8): e1000543.



FCM/FACS (Flow Cytometry)
Staining of human peripheral blood lymphocytes with Mouse anti Human CD39 followed by Rabbit F(ab₂)₂ anti Mouse IgG:FITC

FCM/FACS (Flow Cytometry)
Staining of human peripheral blood lymphocytes with Mouse anti Human CD39:FITC



FCM/FACS (Flow Cytometry)

Staining of human peripheral blood lymphocytes with Mouse anti Human CD39:Low
Endotoxin followed by Rabbit F(ab')2 anti Mouse IgG:FITC

ADDITIONAL INFORMATION

Related Product Information for anti-CD39 antibody

Mouse anti Human CD39, clone A1 recognizes the human CD39 cell surface antigen, a ~70-100 kDa molecule expressed on peripheral blood B cells, T cells and monocytes, and weakly expressed by granulocytes. CD39 has intrinsic ecto-ATPase activity (Wang et al. 1996), and expression can be induced on T cells and increased on B cells, as a late activation antigen (Maliszewski et al. 1994). Mouse anti Human CD39, clone A1 has been shown to block MHC independent target cell recognition by hapten-specific CTL (Scholzen et al. 2009).

NCBI AND UNIPROT INFORMATION

NCBI GI #	1705710
NCBI GeneID	953
UniProt Accession #	P49961; Q5T561; Q5T562; Q86VV3; Q9UQQ9; Q9Y3Q9; A9Z1X8; B4DWB9; B4E1X1; B7Z599; G3XAF6
Molecular Weight	59,325 Da
NCBI Official Full Name	Ectonucleoside triphosphate diphosphohydrolase 1
NCBI Official Synonym Full Names	ectonucleoside triphosphate diphosphohydrolase 1
NCBI Official Symbol	ENTPD1
NCBI Official Synonym Symbols	CD39; SPG64; ATPDase; NTPDase-1
NCBI Protein Information	ectonucleoside triphosphate diphosphohydrolase 1
UniProt Protein Name	Ectonucleoside triphosphate diphosphohydrolase 1
UniProt Gene Name	ENTPD1
UniProt Synonym Gene Names	CD39; NTPDase 1; Ecto-ATPDase 1; Ecto-ATPase 1
UniProt Entry Name	ENTP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd39-antibody-clone-a1-immunofluorescence-functional-assay-flow-cytometry-elisa/50264>