

Monoclonal Antibody to CD39 / ENTPD1 - FITC

Alternate names:	ATPDase, Ecto-ATP diphosphohydrolase, Ecto-apyrase, Ectonucleoside triphosphate diphosphohydrolase 1, Lymphoid cell activation antigen, NTPDase 1
Catalog No.:	SM1101F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	CD39 is an 80kD molecule expressed on peripheral blood B cells, monocytes and T cell clones. CD39 is also weakly expressed on granulocytes. CD39 has intrinsic ecto-ATPase activity. Expression of CD39 is induced on T cells and increased on B cells as a late activation antigen.
Uniprot ID:	P49961
NCBI:	NP_001091645.1
GeneID:	953
Host / Isotype:	Mouse / IgG1
Clone:	A1
Immunogen:	PHA activated human lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography on Protein G. Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells or 100 µl whole blood. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody binds to the Human CD39 cell surface antigen. This antibody has been shown to block MHC independent target cell recognition by hapten-specific CTL. SM1101A is recommended for this purpose. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

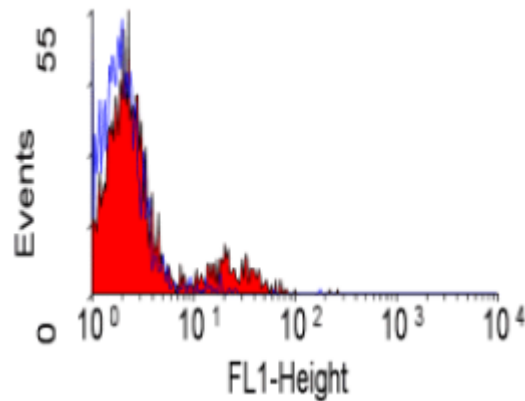
For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
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- General References:**
1. Aversa, G.G. et al. (1988) Detection of a late lymphocyte activation marker by A1, A new monoclonal antibody. *Transpl. Proc.* 20: 49 - 52
 2. Waugh, J.A. et al. (1989) Staining of normal and rejecting kidney using the activation panel. In: *Leucocyte Typing IV. White cell differentiation antigens.* Edited by Knapp, W. et al. Oxford University Press. p485.
 3. Aversa, G.G. and Hall, B.M. (1989) Activation panel antigen expression on PBL activated by PHA or in MLR. In: *Leucocyte Typing IV. White cell differentiation antigens.* Edited by Knapp, W. et al. Oxford University Press, p.498.
 4. Aversa, G.G. et al. (1989) Use of monoclonal antibodies to study in vivo and in vitro activated lymphocytes. *Transpl. Proc.* 21: 349 - 350
 5. Stein, H. et al. (1989) Activated Section report. In: *Leucocyte Typing IV. White cell differentiation antigens.* Edited by Knapp, W. et al. Oxford University Press, p.387.
 6. Aversa, G.G. and Hall, B.M. (1991) Cell surface markers of T cell activation. *Transplantation Reviews* 5: 9.
 7. Suranyi, M.G. et al. (1991) Lymphocyte adhesion molecules in T cell mediated lysis of kidney cells. *Kidney International.* 39: 312 - 319
 8. Stockl, J. et al. (2001) Monomorphic molecules function as additional recognition structures on haptened target cells for HLA-A1 restricted, hapten-specific CTL. *J. Immunol.* 167: 2724-2733.

Pictures:



Staining of human peripheral blood lymphocytes with antibody SM1101F.

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