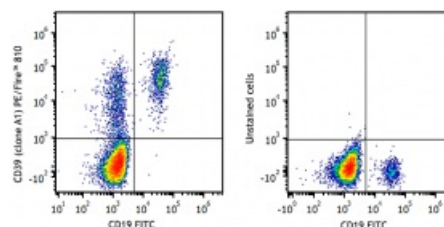


PE/Fire™ 810 anti-human CD39

Catalog # / Size:	2241225 / 25 tests
Clone:	A1
Isotype:	Mouse IgG1, κ
Immunogen:	PHA activated human lymphocytes
Reactivity:	Human, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 810 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD19 FITC and anti-human CD39 (clone A1) PE/Fire™ 810 (left) or stained with anti-human CD19 FITC only (right).

Applications:

Applications: Flow Cytometry

Application Notes: The A1 antibody binds to the human CD39 cell surface antigen and has been shown to block MHC independent target cell recognition by hapten-specific CTL. Additional reported applications (for the relevant formats) include: *in vitro* CD39 blockade³, immunofluorescence⁴, and immunohistochemistry⁶.

- Application References:**
1. Aversa GG, *et al.* 1988. *Transplant. P.* 20:4952.
 2. Aversa GG, *et al.* 1989. *Transplant. P.* 21:34950.
 3. Borsellino G, *et al.* 2007. *Blood.* 110:1225. (Block)
 4. Stockl J, *et al.* 2001. *J. Immunol.* 167:2724. (IF)
 5. Sestak K, *et al.* 2007. *Vet. Immunol. Immunopathol.* 119:21.
 6. Lyck L, *et al.* 2008. *J. Histochem. Cytochem.* 56:201. (IHC)

Description: Human CD39 is an integral membrane protein with two transmembrane domains. It exists as a homotetramer. Expression of CD39 is found on activated lymphocytes, a subset of T cells and B cells, and dendritic cells with weak staining on monocytes and granulocytes. CD39 and CD73 have been found on regulatory T cells, specifically the effector/memory like T cells. CD39 can hydrolyze both nucleoside triphosphates and diphosphates. CD39 is the dominant ecto nucleotidase of vascular and placental trophoblastic tissues and appears to modulate the functional expression of type 2 purinergic (P2) G protein coupled receptors (GPCRs). CD39 has intrinsic ecto-ATPase activity. Expression of CD39 is induced on T cells and increased on B cells as a late activation antigen.