

CD39 (CAT-13.0B10)

Analyte Specific Reagent (ASR)*

Type	Number of tests	Volume per test (μL)	Total volume (μL)	Catalog number
FITC	50	5	250	4084012
	100	5	500	4084015
PE-Cyanine7	50	5	250	4084082
	100	5	500	4084085

Antigen:	CD39
Immunogen:	EBV-transformed B cells from a patient with MHC class-II deficiency re-expressing class-II antigens
Host/Isotype:	Mouse, IgG1,κ
Reactivity:	Human
Purity:	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation:	PBS, pH7.2, 0.09% NaN ₃ and 0.2% (w/v) BSA
Storage:	Store at 2-8°C and protected from prolonged exposure to light. Do not freeze.
Applications:	Flow Cytometry.

Antigen Information

The clone CAT-13.0B10, a mouse monoclonal antibody recognizes a 70 – 100 kDa cell surface antigen known as CD39. It is also known as ATPDase or Ecto-ATP diphosphohydrolase as it has intrinsic Ecto-ATPase activity. CD39 is expressed on peripheral blood B cells and on a subset of T cells, and its expression level increases upon immune activation. The CD4⁺ CD39⁺ T cells catalyze cleavage of adenosine triphosphate (ATP) to adenosine monophosphate (AMP), largely overlap with the CD4⁺ CD25^{high} FOXP3⁺ regulatory T cells and mediate potent immune suppression. CD39 also plays an important role in immune activation.

References

1. Jones M, et al. 1998. CD39 Workshop panel report. In *Leucocyte Typing VI*, pp 157-159.
2. Mandapathil, M, et al. 2009. *J. Immunol. Methods*. 346:55-63:1005.
3. Borsellino G, et al. 2007. *Blood*. 110:1225-1232
4. Duensing S, et al. 1994. *Blood*. 1994; 83(12):3826-3827.

*Analyte Specific Reagent. The analytical and performance characteristics of this ASR product are not established.