

CD39 (CAT-13.0B10)

Type	Size	Catalog number
unconjugated	100µg	108401
	500µg	108403
FITC	25 tests	108414
	100 tests	108415
	200 tests	108416
PE-Cyanine7	25 tests	108484
	100 tests	108485
	200 tests	108486

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 (unconjugated) PBS, pH7.2, 0.09% NaN ₃ and 0.2% (w/v) BSA (conjugated)
Storage:	Store at 2-8°C and protected from prolonged exposure to light. Do not freeze.
Applications:	Flow Cytometry

Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 0.5µg (unconjugated) or 5µl (conjugated) of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.

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.

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.