

Human CD39/ENTPD1 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2991A Catalog Number: MAB11582

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects recombinant human CD39 protein in Direct ELISA.	
Source	Recombinant Monoclonal Rabbit IgG Clone # 2991A	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Chinese Hamster Ovary cell line, CHO-derived human CD39/ENTPD1 Thr38-Val478 Accession # P49961	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.	

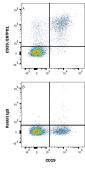
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25 μg/10 ⁶ cells	see below

DATA





Detection of CD39/ENTPD1 in PBMCs by Flow Cytometry PBMCs were stained with Mouse Anti-Human CD19 PE-conjugated Monoclonal Antibody (Catalog # FAB4867P) and either (A) Rabbit Anti-Human CD39/ENTPD1 Monoclonal Antibody (Catalog # MAB11582) or (B) isotype control antibody (Catalog # AB-105-C) followed by Allophycocyaninconjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). View our protocol for Staining Membrane-associated Proteins

PREPARATION AND STORAGE

 Reconstitution
 Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.

 Shipping
 Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Ectonucleoside triphosphate diphosphohydrolase-1 (NTPDase-1) is an integral membrane protein with an extracellular active site. rhNTPDase-1 was expressed as a protein lacking its N- and C-terminal transmembrane domains, resulting in the secretion of the soluble rhNTPDase-1 ectodomain. NTPDase-1 was originally described as CD39, a B lymphocyte cell surface marker (2), but it is also present on the surface of natural killer cells, T cells, and some endothelial cells (3). NTPDase-1 hydrolyzes the β - and γ phosphate residues of nucleotides, preferring ATP as the substrate. Through its hydrolysis of extracellular nucleotides, NTPDase-1 plays a role in the regulation of purinergic signaling (4). NTPDase-1 is involved in the processes of thrombo regulation and vascular inflammation (5). The administration of soluble NTPDase-1 may have therapeutic applications for the treatment of some vascular and transplantation-associated diseases (6).

References:

- 1. Maliszewski, C.R. et al. (1994) J. Immunol. 153:3574.
- 2. Rowe, M. et al. (1982) Int. J. Cancer 29:373.
- 3. Kansas, G.S. et al. (1991) J. Immunol. 146:2235.
- 4. Kishore, B.K. et al. (2005) Am. J. Physiol. Renal Physiol. 288:F1032.
- 5. Marcus, A.J. et al. (2005) Semin. Thromb. Hemost. 31:234.
- 6. Robson, S.C. et al. (2005) Semin. Thromb. Hemost. 31:217.

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