Human CD39L1/ENTPD2 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6087

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD39L1 in direct ELISAs and Western blots. In direct ELISAs, approximately 40% cross-reactivity with recombinant mouse CD39L1 and less than 1% cross-reactivity with recombinant human (rh) CD39L2, rhCD39L3, and rhCD39L4 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human CD39L1/ENTPD2 Thr29-Asp460 Accession # Q9Y5L3
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

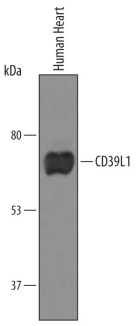
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human CD39L1/ENTPD2 (Catalog # 6087-EN), see our available Western blot detection antibodies

DATA

Western Blot



Detection of Human CD39L1/ENTPD2 by Western Blot. Western blot shows lysates of human heart tissue. PVDF Membrane was probed with 1 µg/mL of Human CD39L1/ENTPD2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6087) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CD39L1/ENTPD2 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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

CD39L1, also known as ENTPD2 and NTPDase2, is an ectonucleotidase belonging to the CD39 family. It is found on the surface of vascular adventitial cells and accessory vascular cells (1). CD39L1 is a Ca^{2+} and Mg^{2+} dependent enzyme that activates platelets by preferentially converting ATP to ADP (2). CD39L1 plays a role in regulating thrombosis and inflammation (3). It is considered to be a therapeutic target for thromboregulation and the treatment of vascular inflammation (2, 4).

References:

1. Zimmermann, H. *et al.* 2000 Proceedings of the Second International Workshop on EctoATPases and Related Ectonucleotidases:18.
2. Robson, S.C. *et al.* 2001 Drug Dev. Res. **53**:193.
3. Marcus, A.J. *et al.* 2005 Semin. Thromb. Hemost. **31**:234.
4. Sevigny, J. *et al.* 2002 Blood **99**:2801.

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