10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD39 Rabbit mAb

Catalog # AP75227

Product Information

Application	WB
Primary Accession	P49961
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	57965

Additional Information

Gene ID	953
Other Names	ENTPD1
Dilution	WB~~1:1000-1:5000
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

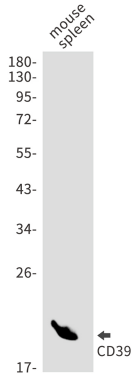
Name	ENTPD1 (HGNC:3363)
Function	Catalyzes the hydrolysis of nucleoside triphosphates (NTPs) and diphosphates (NDPs) (Probable) (PubMed:8529670, PubMed:8626624, PubMed:8955160, PubMed:8996251). The enzyme sequentially removes phosphate groups in two successive steps, converting NTPs to nucleoside monophosphates (NMPs) via NDP intermediates (Probable) (PubMed:8529670, PubMed:8626624, PubMed:8955160, PubMed:8996251). This activity contributes to the regulation of extracellular levels of nucleotides (Probable) (PubMed:8529670, PubMed:8626624, PubMed:8955160, PubMed:8996251). By hydrolyzing proinflammatory ATP and platelet-activating ADP to AMP, it blocks platelet aggregation and supports blood flow (PubMed:8955160, PubMed:8996251).
Cellular Location	Membrane; Multi-pass membrane protein. Membrane, caveola
Tissue Location	Expressed primarily on activated lymphoid cells (PubMed:7930580). Also

expressed in endothelial tissues (PubMed:8955160). Highly expressed in placenta, lung, skeletal muscle, kidney (PubMed:8955160).

Background

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. Product Details

Images



Western blot analysis of CD39 in mouse spleen lysates using CD39 antibody.

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