

# CD39 Rabbit mAb

Catalog # AP75227

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P49961</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	57965

## Additional Information

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

## Protein Information

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

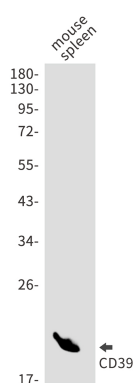
## Background

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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

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

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