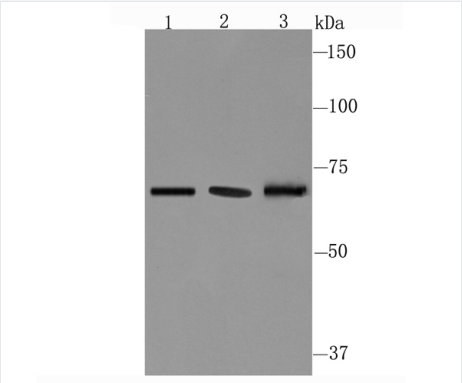
CD39 Antibody – Rabbit Monoclonal

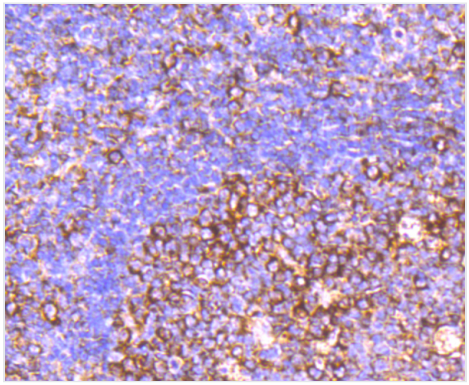
PRODUCT OVERVIEW

Product Name	CD39, Monoclonal Antibody
Full Product Name	CD39 Antibody
Product Gene Name	anti-CD39 antibody
Product Synonym Names	ATPDase antibody; CD 39 antibody; CD39 antibody; CD39 antigen antibody; DKFZp686D194 antibody; DKFZp686I093 antibody; Ecto apyrase antibody; Ecto ATP diphosphohydrolase antibody; Ecto-apyrase antibody; Ecto-ATP diphosphohydrolase 1 antibody; Ecto-ATPase 1 antibody; Ecto-ATPDase 1 antibody; Ectonucleoside triphosphate diphosphohydrolase 1 antibody; ENTP1_HUMAN antibody; ENTPD 1 antibody; ENTPD1 antibody; FLJ40921 antibody; FLJ40959 antibody; Lymphoid cell activation antigen antibody; NTPDase 1 antibody; NTPDase1 antibody; SPG64 antibody
Clonality	Monoclonal
Clone Number	JA90-36
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Purity/Purification	ProA affinity purified
Preparation and Storage	Store at -20 degree C.
Molecular Weight	57,965 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (97471536..97637023). Location: 10q24
OMIM	601752
3D Structure	ModBase 3D Structure for P49961
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Product Categories/Family for anti-CD39 antibody	Total protein Ab
Applications Tested/Suitable for anti-CD39 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CD39 antibody	WB: 1:500-1:1000 IHC: 1:50-1:200
Related Product Information for anti-CD39 antibody	CD39, also known as ectonucleoside triphosphate diphosphohydrolase 1 (ENP1), is an integral membrane glycoprotein that acts as an extracellular nucleotide-hydrolyzing enzyme. CD39 inhibits ADP-induced platelet aggregation by hydrolyzing ADP to AMP and ultimately generating adenosine. Intracellular CD39 undergoes glycosylation at 6 N-glycosylation sites and translocates to the membrane in order to be an active enzyme. Alternative splicing gives rise to three CD39 isoforms, vascular, placenta I and placenta II. The placenta I isoform differs at the amino terminus whereas the placenta II isoform is missing amino acids 300-510 at the C-terminus. CD39 is expressed in vascular tissues including placenta, lung, skeletal muscle and kidney, as well as endothelium, smooth muscle, cardiac cells, lymphocytes (such as activated B cells) activated NK cells, macrophages, dendridic cells and platelets. CD39 may be used as an anti-thrombic agent for pre-treating patients at risk for coronary artery occlusion and thrombic stroke.

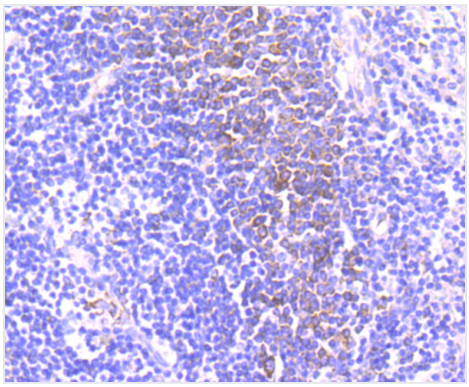
Other Notes	Small volumes of anti-CD39 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD39 purchase	MBS9436322 is an antibody targeting CD39. Also known as CD39 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



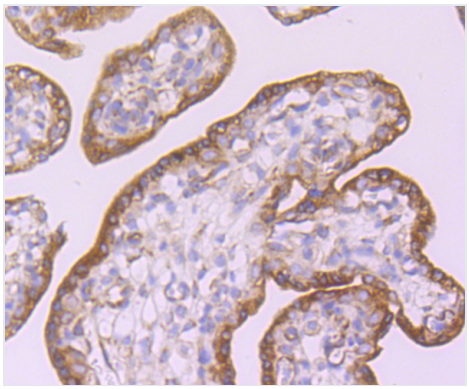
Western Blot (WB) of anti-CD39 antibody
Western blot analysis of CD39 on different cell lysate using anti-CD39 antibody at 1/1, 000 dilution. Positive controlï¿½ï¿½ Lane1: Human spleen Lane2: Mouse placenta Lane3: Mouse spleen



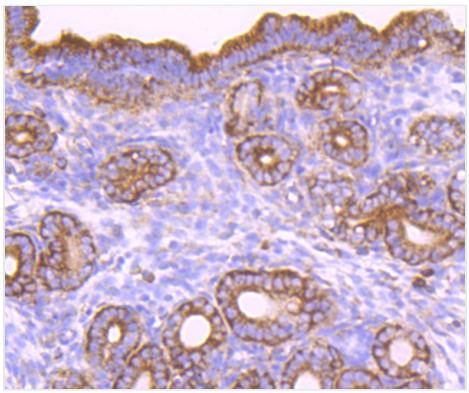
Immunohistochemistry (IHC) of anti-CD39 antibody
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD39 antibody. Counter stained with hematoxylin.



Immunohistochemistry (IHC) of anti-CD39 antibody
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-CD39 antibody. Counter stained with hematoxylin.



Immunohistochemistry (IHC) of anti-CD39 antibody
Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-CD39 antibody. Counter stained with hematoxylin.



Immunohistochemistry (IHC) of anti-CD39 antibody
Immunohistochemical analysis of paraffin-embedded mouse uterus tissue using anti-CD39 antibody. Counter stained with hematoxylin.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD39. It may not necessarily be applicable to this product.

NCBI GI #	147905700

NCBI GeneID	953
NCBI Accession #	NP_001091645.1
UniProt Primary Accession #	P49961
UniProt Secondary Accession #	Q5T561; Q5T562; Q86VV3; Q9UQQ9; Q9Y3Q9; A9Z1X8; B4DWB9; B4E1X1; B7Z599; G3XAF6
UniProt Related Accession #	P49961
GenBank Nucleotide #	NM_001098175.1
NCBI Official Full Name	ectonucleoside triphosphate diphosphohydrolase 1 isoform 2
NCBI Official Synonym Full Names	ectonucleoside triphosphate diphosphohydrolase 1
NCBI Official Symbol	ENTPD1
NCBI Official Synonym Symbols	CD39; ATPDase; NTPDase-1
UniProt Protein Name	Ectonucleoside triphosphate diphosphohydrolase 1
UniProt Synonym Protein Names	Ecto-ATP diphosphohydrolase 1; Ecto-ATPDase 1; Ecto-ATPase 1; Ecto-apyrase; Lymphoid cell activation antigen
Protein Family	Ectonucleoside triphosphate diphosphohydrolase
UniProt Gene Name	ENTPD1
UniProt Synonym Gene Names	CD39; NTPDase 1; Ecto-ATPDase 1
UniProt Entry Name	ENTP1_HUMAN
NCBI Protein Information	ectonucleoside triphosphate diphosphohydrolase 1; NTPDase 1; CD39 antigen; ecto-apyrase; ecto-ATPase 1; ecto-ATPDase 1; ecto-ATP diphosphohydrolase 1; lymphoid cell activation antigen
NCBI Summary for CD39	The protein encoded by this gene is a plasma membrane protein that hydrolyzes extracellular ATP and ADP to AMP. Inhibition of this protein's activity may confer anticancer benefits. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2015]
UniProt Comments for CD39	ENTPD1: In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Could also be implicated in the prevention of platelet aggregation by hydrolyzing platelet-activating ADP to AMP. Hydrolyzes ATP and ADP equally well. Belongs to the GDA1/CD39 NTPase family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Nucleotide Metabolism - purine; EC 3.6.1.5; Extracellular matrix; Nucleotide Metabolism - pyrimidine; Membrane protein, multi-pass; Hydrolase Chromosomal Location of Human Ortholog: 10q24 Cellular Component: membrane; integral to plasma membrane; plasma membrane; basal lamina Molecular Function: protein binding; nucleoside-diphosphatase activity; nucleoside-triphosphatase activity; ATP binding Biological Process: platelet activation; G-protein coupled receptor protein signaling pathway; purine ribonucleoside diphosphate catabolic process; cell adhesion; blood coagulation Disease: Spastic Paraplegia 64, Autosomal Recessive
Research Articles on CD39	**1.** hCD39 expressed by circulating leukocytes and intrinsic renal cells limits innate AN injury.
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