

Rat anti-Human CD39 Monoclonal Antibody | anti-CD39 antibody

Rat anti CD39, Ectonucleoside triphosphate diphosphohydrolase 1

CATALOG # AAA77520	HOST Rat	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD39; Monoclonal Antibody; Rat anti CD39; Ectonucleoside triphosphate diphosphohydrolase 1; anti-CD39 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	R22
Specificity	The antibody R22 is directed against human CD39. The antibody has not been tested for cross reactivity with other species.
Form/Format	Each vial contains 100ul 1mg/ml purified monoclonal antibody in phosphate buffered saline (PBS) containing 0.09% sodium azide.
Sequence Length	517
Applicable Applications for anti-CD39 antibody	FCM/FACS (Flow Cytometry)
Product Type	Primary Antibodies
Source Note	R22 is a rat monoclonal IgG1 antibody derived by fusion of SP2/0 mouse myeloma cells with splenocytes from a WAG/Rij rat immunized with JY cells, a human B lymphoblastoid cell line.
Preparation and Storage	Store at 4 degree C, or in small aliquots at -20 degree C.

ADDITIONAL INFORMATION

Related Product Information for anti-CD39 antibody	CD39 is a transmembrane cell surface protein, which is a member of the ecto-nucleoside triphosphate diphosphohydrolase (ENTPDase) family. The CD39 molecule is primarily involved in the metabolism of purine nucleotides, converting extracellular adenosine triphosphate (ATP) and adenosine diphosphate (ADP) to adenosine monophosphate (AMP). In conjunction with CD73 (5' nucleotidase), CD39 plays a key role in regulating immunity and inflammation through the production of adenosine and purinergic signalling pathways. In addition, CD39 is reported to mediate B cell homotypic adhesion and inhibit ADP-induced platelet aggregation. CD39 was originally identified on Epstein Barr virus transformed B cell lines and described as a B-cell activation marker. However, subsequent studies have shown that CD39 is also expressed on activated T-cells, T-regulatory cells, natural killer cells, tissue macrophages and endothelial cells. Increased expression of CD39 has also been reported in cases of chronic lymphocytic leukaemia and several solid tumours including colorectal and pancreatic cancer suggesting a potential role for CD39 in tumour development and progression.
Product Categories/Family for anti-CD39 antibody	CD Marker ; Cancer ; Immunology
References	1. Kansas GS, Wood GS, Tedder TF. (1991). Expression, distribution and biochemistry of CD39. J Immunol. 146:2235-2244.

NCBI AND UNIPROT INFORMATION

NCBI GI #	147905700
NCBI GeneID	953
NCBI Accession #	NP_001091645.1
NCBI GenBank Nucleotide #	NM_001098175.1
UniProt Accession #	P49961; Q5T561; Q5T562; Q86VV3; Q9UQQ9; Q9Y3Q9; A9Z1X8; B4DWB9; B4E1X1; B7Z599; G3XAF6
Molecular Weight	59,325 Da
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; SPG64; ATPDase; NTPDase-1
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
UniProt Protein Name	Ectonucleoside triphosphate diphosphohydrolase 1
UniProt Gene Name	ENTPD1
UniProt Synonym Gene Names	CD39; NTPDase 1; Ecto-ATPDase 1; Ecto-ATPase 1
UniProt Entry Name	ENTP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd39-antibody-clone-r22-flow-cytometry-elisa/77520>