

anti-Human CD39 Antibody | anti-CD39 antibody

Anti-Hu CD39 FITC

CATALOG # AAA129247	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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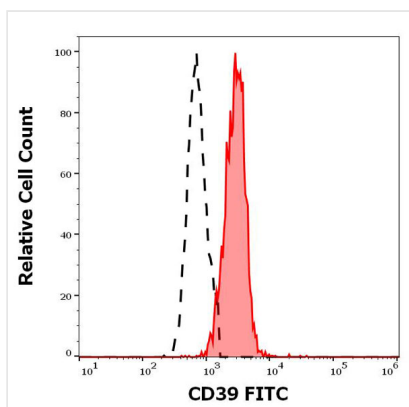
PRODUCT SYNONYMS

CD39; Anti-Hu CD39 FITC; ectonucleoside triphosphate diphosphohydrolase 1; ETDH1; LCAA; Ecto-ATPase 1; Ecto-apyrase; ENTPD1; anti-CD39 antibody

PRODUCT SPECIFICATIONS

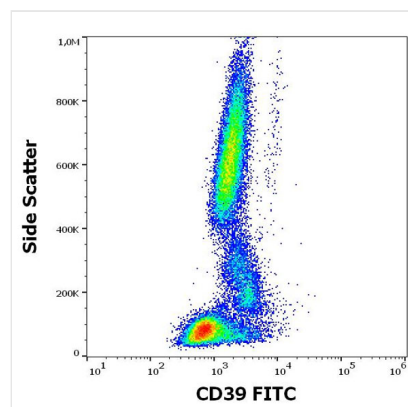
Reactivity	Human
Isotype	Mouse IgG2b kappa
Clone Number	TU66
Specificity	The mouse monoclonal antibody TU66, also known as Tü66, recognizes an extracellular epitope of CD39, a 78 kDa cell surface enzyme expressed by regulatory T cells, mantle zone B cells, activated T cells, NK cells, macrophages, dendritic cells, neurons, endothelial cells and platelets.
Form/Format	FITC Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 1
Applicable Applications for anti-CD39 antibody	FCM/FACS (Flow Cytometry)
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human monocytes (red-filled) from CD39 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD39 (TU66) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD39 (TU66) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD39 antibody	CD39, also known as ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1), is a cell surface enzyme (with intracellular N- and C-terminus) which hydrolyzes extracellular ATP and ADP to AMP. Inhibition of its enzymatic activity may confer anticancer benefits. The formation of oligomers in the plasma membrane is essential for enzyme activity. It is expressed on Treg cells, and in other cell types, such as mantle zone B cells, activated T cells, NK cells, macrophages, dendritic cells, neurons, endothelial cells and platelets. Hydrolysis of ATP and ADP inhibits inflammatory and thrombotic responses. In the nervous system, it regulates purinergic neurotransmission.
References	*Borsellino G, Kleinewietfeld M, Di Mitri D, Sternjak A, Diamantini A, Giometto R, Höpner S, Centonze D, Bernardi G, Dell'Acqua ML, Rossini PM, Battistini L, Röttschke O, Falk K: Expression of ectonucleotidase CD39 by Foxp3+ Treg cells: hydrolysis of extracellular ATP and immune suppression. Blood. 2007 Aug 15;110(4):1225-32., URL: http://www.ncbi.nlm.nih.gov/pubmed/17449799,*Nikolova M, Carriere M, Jenabian MA, Limou S, Younas M, Kök A, Huë S, Seddiki N, Hulin A, Delaneau O, Schuitemaker H, Herbeck JT, Mullins JI, Muhtarova M, Bensussan A, Zagury JF, Lelievre JD, Lévy Y: CD39/adenosine pathway is involved in AIDS progression. PLoS Pathog. 2011 Jul;7(7):e1002110., URL: http://www.ncbi.nlm.nih.gov/pubmed/21750674,*Wang YM, McRae JL, Robson SC, Cowan PJ, Zhang GY, Hu M, Polhill T, Wang Y, Zheng G, Wang Y, Lee VW, Unwin RJ, Harris DC, Dwyer KM, Alexander SI: Regulatory T cells participate in CD39-mediated protection from renal injury. Eur J Immunol. 2012 Sep;42(9):2441-51., URL: https://pubmed.ncbi.nlm.nih.gov/22684996/,*Gadeock S, Tran JN, Georgiou JG, Jalilian I, Taylor RM, Wiley JS, Sluyter R: TGF-γ1 prevents up-regulation of the P2X7 receptor by IFN-γ and LPS in leukemic THP-1 monocytes. Biochim Biophys Acta. 2010 Nov;1798(11):2058-66., URL: https://pubmed.ncbi.nlm.nih.gov/19351909/,*Jin Z, Teramoto N, Hayashi K, Liu YX, Jin G, Oka T, Takahashi K, Yoshino T, Akagi T: CD40 ligand stimulation inhibits the proliferation of mantle cell lymphoma lines. Anticancer Res. 2004 Mar-Apr;24(2B):691-7., URL: http://www.ncbi.nlm.nih.gov/pubmed/15161013,*Virtanen S, Schulte R, Stingl J, Caldas C, Shehata M: High-throughput surface marker screen on primary human breast tissues reveals further cellular heterogeneity. Breast Cancer Res. 2021 Jun 13;23(1):66., URL: https://pubmed.ncbi.nlm.nih.gov/34120626/,

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	57,965 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; 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
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.