

HLA-C Antibody | anti-HLA-C antibody

Anti-HLA-C PE

CATALOG # AAA129218	REACTIVITY Non-human primates, Human	APPLICATIONS Flow Cytometry, Functional Assay
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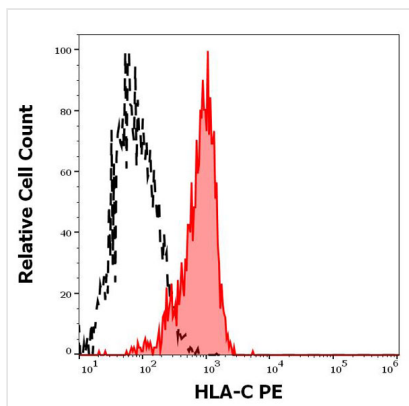
PRODUCT SYNONYMS

HLA-C; Anti-HLA-C PE; major histocompatibility complex; class I; C; HLC-C; D6S204; PSORS1; HLA-JY3; anti-HLA-C antibody

PRODUCT SPECIFICATIONS

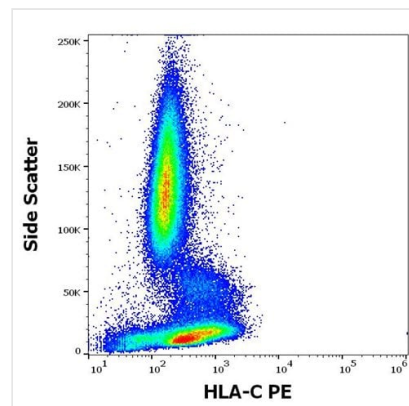
Reactivity	Non-human primates, Human
Isotype	Mouse IgG2b
Clone Number	DT-9
Specificity	The mouse monoclonal antibody DT-9 recognizes an extracellular epitope on HLA-C member of MHC class I molecules. It does not crossreact with HLA-A or HLA-B allotypes.
Form/Format	PE Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-HLA-C antibody	FCM/FACS (Flow Cytometry)
Immunogen	Purified MHC class I molecules of tamarin origin
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 basophils (red-filled) from CD45 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human HLA-C (DT-9) PE antibody (10 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human HLA-C (DT-9) PE antibody (10 ?l reagent / 100 ?l of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-HLA-C antibody	HLA-C, a member of MHC class I glycoproteins, is one of polymorphysm typing targets, which are important for transplantation. The HLA system plays an important role in the occurrence and outcome of infectious diseases. The structural spike and the nucleocapsid proteins of the novel coronavirus SARS-CoV-2, which causes coronavirus disease 2019 (COVID-19), are reported to contain multiple Class I epitopes with predicted HLA restrictions. Individual HLA genetic variation may help explain different immune responses to a virus across a population. It has been described that HLA-C interacts with human herpesvirus 8 MIR1 protein.
References	*Körner C, Simoneau CR, Schommers P, Granoff M, Ziegler M, Hölzemer A, Lunemann S, Chukwukelu J, Corleis B, Naranbhai V, Kwon DS, Scully EP, Jost S, Kirchhoff F, Carrington M, Altfeld M: HIV-1-Mediated Downmodulation of HLA-C Impacts Target Cell Recognition and Antiviral Activity of NK Cells. Cell Host Microbe 2017 Jul 12;22(1):111-119., URL: https://pubmed.ncbi.nlm.nih.gov/28704647/,*Tremante E, Lo Monaco E, Ingegnere T, Sampaoli C, Fraioli R, Giacomini P: Monoclonal antibodies to HLA-E bind epitopes carried by unfolded beta2 m-free heavy chains. Eur J Immunol. 2015 Aug;45(8):2356-64., URL: https://pubmed.ncbi.nlm.nih.gov/25982269/,*Serena M, Parolini F, Biswas P, Sironi F, Blanco Miranda A, Zoratti E, Scupoli MT, Ziglio S, Valenzuela-Fernandez A, Gibellini D, Romanelli MG, Siccardi A, Malnati M, Beretta A, Zipeto D: HIV-1 Env associates with HLA-C free-chains at the cell membrane modulating viral infectivity. Sci Rep. 2018 May 22;8:46991. doi: 10.1038/srep46991., URL: https://pubmed.ncbi.nlm.nih.gov/29786690/,*Corrah TW, Goonetilleke N, Kopycinski J, Deeks SG, Cohen MS, Borrow P, McMichael A, Brackenridge S: Reappraisal of the relationship between the HIV-1-protective single-nucleotide polymorphism 35 kilobases upstream of the HLA-C gene and surface HLA-C expression. J Virol. 2011 Apr;85(7):3367-74., URL: https://pubmed.ncbi.nlm.nih.gov/21248048/,*van der Ploeg K, Chang C, Ivarsson MA, Moffett A, Wills MR, Trowsdale J: Modulation of human leukocyte antigen-C by human cytomegalovirus stimulates KIR2DS1 recognition by natural killer cells. Front Immunol. 2017 Mar 29;8:298., URL: https://pubmed.ncbi.nlm.nih.gov/28424684/,*Parolini F, Biswas P, Serena M, Sironi F, Muraro V, Guizzardi E, Cazzoletti L, Scupoli MT, Gibellini D, Ugoletti E, Biassoni R, Beretta A, Malnati M, Romanelli MG, Zipeto D: Stability and expression levels of HLA-C on the cell membrane modulate HIV-1 infectivity. J Virol. 2017 Dec 14;92(1):e01711-17., URL: https://pubmed.ncbi.nlm.nih.gov/29070683/,

NCBI AND UNIPROT INFORMATION

NCBI GI #	52630342
NCBI GeneID	3107
NCBI Accession #	NP_002108
NCBI GenBank Nucleotide #	NM_002117.5
UniProt Accession #	P10321 ; O62883 ; O78060 ; O78068 ; O78069 ; P30503 ; Q29743 ; Q29992 ; Q29993 ; Q9GIK8 ; Q9TQB4 ; P04222 ; P30499 ; P30501 ; P30504 ; P30505 ; P30508 ; P30510 ; Q29960 ; Q29963
Molecular Weight	40,861 Da
NCBI Official Full Name	HLA class I histocompatibility antigen, Cw-1 alpha chain
NCBI Official Synonym Full Names	major histocompatibility complex, class I, C
NCBI Official Symbol	HLA-C
NCBI Official Synonym Symbols	HLC-C; D6S204; PSORS1; HLA-JY3
NCBI Protein Information	HLA class I histocompatibility antigen, Cw-1 alpha chain; HLA class I histocompatibility antigen, C alpha chain; MHC class I antigen heavy chain HLA-C; human leukocyte antigen-C alpha chain; major histocompatibility antigen HLA-C
UniProt Protein Name	HLA class I histocompatibility antigen, Cw-7 alpha chain
UniProt Gene Name	HLA-C
UniProt Synonym Gene Names	HLAC

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.