

anti-Human TCR Vdelta2 Antibody | anti-TCRVdelta2 antibody

Anti-Hu TCR Vdelta2 PE

CATALOG # AAA129195	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
-------------------------------	----------------------------	---

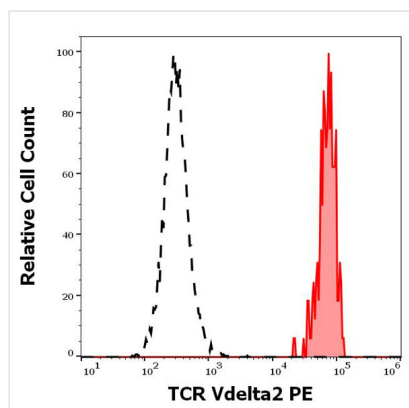
PRODUCT SYNONYMS

TCR Vdelta2; Anti-Hu TCR Vdelta2 PE; TCRVD2; anti-TCRVdelta2 antibody

PRODUCT SPECIFICATIONS

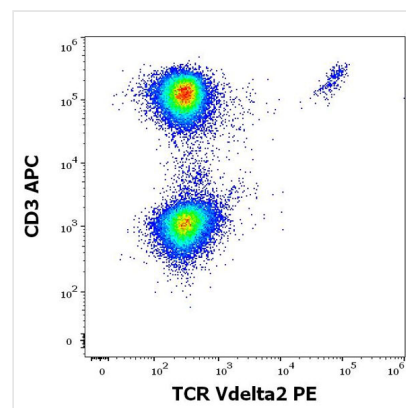
Reactivity	Human
Isotype	Mouse IgG1 kappa
Clone Number	B6
Specificity	The mouse monoclonal antibody B6 recognizes an extracellular epitope of human TCR Vdelta2, which is expressed on the majority of gamma/delta T cells.
Form/Format	PE Purified antibody is conjugated with R-phycoerythrin (PE) under optimum 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-TCRVdelta2 antibody	FCM/FACS (Flow Cytometry)
Immunogen	human recombinant TCR Vdelta2
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



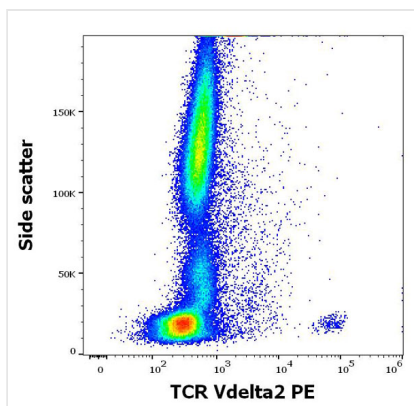
FCM/FACS (Flow Cytometry)

Separation of human TCR Vdelta2 positive lymphocytes (red-filled) from TCR Vdelta2 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human TCR Vdelta2 (B6) PE antibody (10 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human TCR Vdelta2 (B6) PE antibody (10 ?l reagent / 100 ?l of peripheral whole blood) and anti-human CD3 (UCHT1) APC 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 TCR Vdelta2 (B6) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-TCRVdelta2 antibody	TCR Vdelta2 is a variant of TCR delta chain, that is present on a major subset of human gamma/delta T cells. TCR Vgamma9/Vdelta2 (or Vgamma2/Vdelta2) T cells are able to recognize and kill various tumor cells, as this receptor heterodimer binds to certain phosphoantigens, expressed by tumors. They can recognize these antigens in an MHC-unrestricted manner. Similarly to NK cells, Vdelta2 T cells express MHC I receptors and killer Ig-like receptors, that are involved in tumor recognition and cytolysis. The potentially cytotoxic subset of them is identified by cell surface expression of polysialylated CD56.
References	*Siegers GM, Felizardo TC, Mathieson AM, Kosaka Y, Wang XH, Medin JA, Keating A: Anti-leukemia activity of in vitro-expanded human gamma delta T cells in a xenogeneic Ph+ leukemia model. PLoS One. 2011 Feb 3;6(2):e16700., URL: https://pubmed.ncbi.nlm.nih.gov/21304898/,*Hunter S, Willcox CR, Davey MS, Kasatskaya SA, Jeffery HC, Chudakov DM, Oo YH, Willcox BE: Human liver infiltrating gammadelta T cells are composed of clonally expanded circulating and tissue-resident populations. J Hepatol. 2018 Sep;69(3):654-665., URL: https://pubmed.ncbi.nlm.nih.gov/29758330/,*Ogongo P, Steyn AJ, Karim F, Kaylesh J Dullabh KJ, Awala I, Madansein R, Leslie A, Behar SM: Differential skewing of donor-unrestricted and gammadelta T cell repertoires in tuberculosis-infected human lungs. J Clin Invest. 2020 Jan 2;130(1):214-230., URL: https://pubmed.ncbi.nlm.nih.gov/31763997/,*Li H, Luo K, Pauza CD: TNF-alpha is a positive regulatory factor for human Vgamma2 Vdelta2 T cells. J Immunol. 2008 Nov 15;181(10):7131-7, URL: https://pubmed.ncbi.nlm.nih.gov/18981134/,*Fisher JP, Yan M, Heuwerker J, Carter L, Abolhassani A, Frosch J, Wallace R, Flutter B, Capsomidis A, Hubank M, Klein N, Callard R, Gustafsson K, Anderson J: Neuroblastoma killing properties of Vdelta2 and Vdelta2-negative gammadeltaT cells following expansion by artificial antigen-presenting cells. Clin Cancer Res. 2014 Nov 15;20(22):5720-32., URL: https://pubmed.ncbi.nlm.nih.gov/24893631/,*Davey MS, Willcox CR, Hunter S, KasatskayaSA, Remmerswaal EB, Salim M, Mohammed F, Bemelman FJ, Chudakov DM, Oo YH, Willcox BE: The human Vdelta2 + T-cell compartment comprises distinct innate-like Vgamma9 + and adaptive Vgamma9 - subsets. Nat Commun. 2018 May 2;9(1):1760., URL: https://pubmed.ncbi.nlm.nih.gov/29720665/,

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/tcrvdelta2-human-antibody/tcr-vdelta2/129195>