

anti-Human TCR gamma/delta Antibody | anti-TCRgamma/delta antibody

Anti-Hu TCR gamma/delta FITC

CATALOG # AAA129197	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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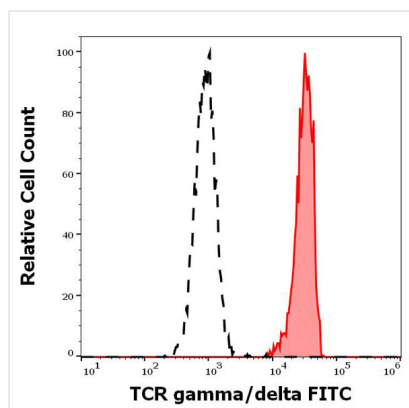
PRODUCT SYNONYMS

TCR gamma/delta; Anti-Hu TCR gamma/delta FITC; TCRG/D; anti-TCRgamma/delta antibody

PRODUCT SPECIFICATIONS

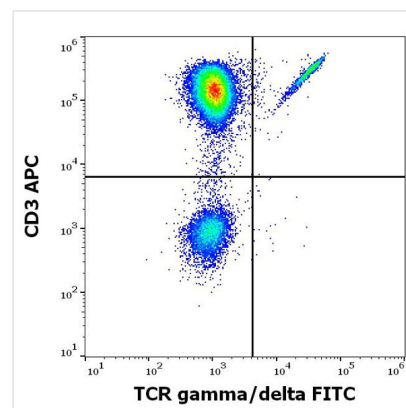
Reactivity	Human
Isotype	Mouse IgG1
Clone Number	11F2
Specificity	The mouse monoclonal antibody 11F2 recognizes an extracellular epitope in all molecular forms of the TCR gamma/delta.
Form/Format	FITC Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 1
Applicable Applications for anti-TCRgamma/delta antibody	FCM/FACS (Flow Cytometry)
Immunogen	Purified CD3 antigen complex
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



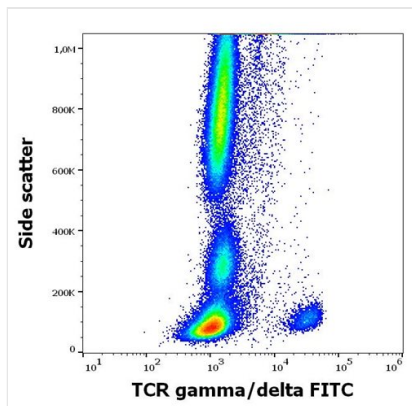
FCM/FACS (Flow Cytometry)

Separation of human TCR gamma/delta positive lymphocytes (red-filled) from TCR gamma/delta negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human TCR gamma/delta (11F2) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human TCR gamma/delta (11F2) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood) and anti-human CD3(UCHT1) APC antibody (10 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 TCR gamma/delta (11F2) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-TCRgamma/delta antibody

The antigen-specific T cell receptor (TCR) is composed of either alpha and beta subunit, or gamma and delta subunit. Majority of T cells present in the blood, lymph and secondary lymphoid organs express TCR alpha/beta heterodimers, whereas the T cells expressing TCR gamma/delta heterodimers are localized mainly in epithelial tissues and at the sites of infection. The subunits of TCR heterodimers are covalently bonded and in the endoplasmic reticulum they associate with CD3 subunits to form functional TCR-CD3 complex. Lack of expression of any of the chains is sufficient to stop cell surface expression.

References

*Ichinohasama R, Miura I, Takahashi T, Yaginuma Y, Myers J, DeCoteau JF, Yee C, Kadin ME, Mori S, Sawai T: Peripheral CD4+ CD8- gammadelta T cell lymphoma: a case report with multiparameter analyses. Hum Pathol. 1996 Dec;27(12):1370-7., URL: <https://pubmed.ncbi.nlm.nih.gov/8958314/>, *Futagbi G, Welbeck JE, Tetteh JK, Hviid L, Akanmori BD: Selective activation of TCR-gammadelta+ cells in endemic Burkitt's lymphoma. Malar J. 2007 May 23;6:69., URL: <https://pubmed.ncbi.nlm.nih.gov/17521425/>, *Bertaina A, Zorzoli A, Petretto A, Barbarito G, Inglese E, Merli P, Lavarello C, Brescia LP, De Angelis B, Tripodi G, Moretta L, Locatelli F, Airolidi I: Zoledronic acid boosts gammadelta T-cell activity in children receiving alphabeta + T and CD19 + cell-depleted grafts from an HLA-haplo-identical donor. Oncoimmunology. 2016 Sep 27;6(2):e1216291., URL: <https://pubmed.ncbi.nlm.nih.gov/28344861/>, *Papadopoulou M, Tieppo P, McGovern N, Gosselin F, Chan JK, Goetgeluk G, Dauby N, Cogan A, Donner C, Ginhoux F, Vandekerckhove B, Vermijlen D: TCR sequencing reveals the distinct development of fetal and adult human Vgamma9Vdelta2 T cells. J Immunol. 2019 Sep 15;203(6):1468-1479., URL: <https://pubmed.ncbi.nlm.nih.gov/31413106/>, *Borst J, van Dongen JJ, Bolhuis RL, Peters PJ, Hafler DA, de Vries E, van de Griend RJ: Distinct molecular forms of human T cell receptor gamma/delta detected on viable T cells by a monoclonal antibody. J Exp Med. 1988 May 1;167(5):1625-44., URL: <https://pubmed.ncbi.nlm.nih.gov/2966845/>,

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Online datasheet: <https://stage.aaabiotech.com/tcrgamma-delta-human-antibody/tcr-gamma-delta/129197>