

Mouse anti-Human TCR alpha/beta Monoclonal Antibody

Anti-Hu TCR alpha/beta PE-Cy5

CATALOG # AAA129175	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

TCR alpha/beta; Monoclonal Antibody; Anti-Hu TCR alpha/beta PE-Cy5; TCRA/B; anti-TCR alpha/beta antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	IP26
Specificity	The mouse monoclonal antibody IP26 recognizes a monomorphic extracellular determinant of TCR alpha/beta, the dominant subtype of T cell receptor expressed in human peripheral blood.
Purity/Purification	The purified antibody is conjugated with tandem dye PE-Cy5 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-TCR alpha/beta antibody	FCM/FACS (Flow Cytometry)
Conjugation	PE-Cy5
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-TCR alpha/beta 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 Application (FUNC)tional TCR-CD3 complex. Lack of expression of any of the chains is sufficient to stop cell surface expression.
References	*Kuttruff S, Koch S, Kelp A, Pawelec G, Rammensee HG, Steinle A: Nkp80 defines and stimulates a reactive subset of CD8 T cells. Blood. 2009 Jan 8;113(2):358-69., URL: http://www.ncbi.nlm.nih.gov/pubmed/18922855 Sulliv *von Boehmer H: T cell development and selection in the thymus. Bone Marrow Transplant. 1992;9 Suppl 1:46-8., URL: https://www.ncbi.nlm.nih.gov/pubmed/1324045 ordina,*Levelt CN, Wang B, Ehrfeld A, Terhorst C, Eichmann K: Regulation of T cell receptor (TCR)-beta locus allelic exclusion and initiation of TCR-alpha locus rearrangement in immature thymocytes by signaling through the CD3 complex. Eur J Immunol. 1995 May;25(5):1257-61., URL: https://www.ncbi.nlm.nih.gov/pubmed/7774628 ordina,*Michie AM, Zúñiga-Pflücker JC: Regulation of thymocyte differentiation: pre-TCR signals and beta-selection. Semin Immunol. 2002 Oct;14(5):311-23., URL: https://www.ncbi.nlm.nih.gov/pubmed/12220932 ordin,*Croxford AL, Akilli-Ozturk O, Rieux-Laucat F, Förster I, Waisman A, Buch T: MHC-restricted T cell receptor signaling is required for alpha beta TCR replacement of the pre T cell receptor. Eur J Immunol. 2008 Feb;38(2):391-9., URL: https://www.ncbi.nlm.nih.gov/pubmed/18203137

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://www.aaabiotech.com/monoclonal/tcr-alpha-beta-antibody-clone-ip26-flow-cytometry-elisa/129175>