





CBI Newsletter

JUNE-2022

The Application of TCR α/β & TCR γ/δ in Flow Cytometry

The **IP26** monoclonal antibody reacts with the alpha-beta chain of human TCR. **The alpha-beta TCR (TCR \alpha/\beta)** is expressed by the majority of peripheral T cells. **TCR gamma/delta (T-cell receptor gamma/delta: TCR \gamma/\delta)** are specialized T-cells in the immune system.

The 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.

T Cell and TCR Diversity Most human T cells express the TCR alpha-beta and either CD4 or CD8 molecule (single positive, SP). A small number of T cells lack both CD4 and CD8 (double negative, DN). Increased percentages of alpha-beta DN T cells have been identified in some autoimmune and immunodeficiency disorders.

Gamma-delta T cells are primarily found within the epithelium. They show less TCR diversity and recognize antigens differently than **alpha-beta T cells**. Subsets of **gamma-delta T cells** have shown antitumor and immunoregulatory activity.

TCR α/β FITC TCR α/β PE TCR γ/δ FITC TCR γ/δ PercP-Cy5.5 122015 122025 125815 125865

Our available products:

Representative data













Our CD38 works great with Omicron Research!

Details in publication in "Cell"

Customer Case | Citation | mRNA-1273 or mRNA-Omicron boost in vaccinated macaques elicits similar B cell expansion, neutralizing responses, and protection from Omicron

Keywords: CD38 PE/Omicron/ B cell https://doi.org/10.1016/j.cell.2022.03.038

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NEW PRODUCT

Product	Size	Clone	Catalog #
CD7 APC-Cyanine7	100Test	124-1D1	102595
CD64 APC-Cyanine7	100Test	32.2	107195
CD16 PE-CF594	100Test	3G8	1014205
CD9 PE-Cyanine7	100Test	C-A9	123885
CD13 PE-Cyanine7	100Test	APN/1464	103875
TCR α/β FITC	100Test	IP26	122015
TCR α/β PE	100Test	IP26	122025
TCR γ/δ FITC	100Test	11F2	125815
TCR γ/δ PerCP-Cyanine5.5	100Test	11F2	125865

200 tests & ASR & free test size available!



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