BioLegend
From Revvity

Version: 1 Revision Date: 10/09/2025

Spark PLUS B550™ anti-human TCR α/β Antibody

Catalog# / Size	306755 / 25 tests
Clone	IP26
Regulatory Status	RUO
Other Names	α/β TCR, TCR α/β
Isotype	Mouse IgG1, κ
Description	The IP26 antibody reacts with a monomorphic determinant of the α/β T-cell receptor, which is expressed on greater than 95% of normal peripheral blood $CD3^+$ T cells. The α/β TCR recognizes a peptide bound to MHC leading to T-cell activation.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS B550™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for the relevant formats) include: T cell activation. When co-staining with anti-CD3, we recommend using clone UCHT1, since we have confirmed that IP26 does not compete with this clone. Other anti-CD3 clones may compete out the binding of IP26.
Application References **(PubMed link indicates BioLegend citation)**	1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. (FC) 2. Joseph A, *et al.* 2008. *J. Virol.* 82:3078. (FC) PubMed 3. Pinto JP, *et al.* 2010. *Immunology.* 130:217. PubMed
RRID	AB_3720638 (BioLegend Cat. No. 306755)

Antigen Details

Structure	Ig superfamily, with CD3 forms CD3/TCR complex

Distribution	T cells, thymocytes
Function	Antigen recognition, T cell activation
Ligand/Receptor	Peptide bound to MHC
Cell Type	T cells, Thymocytes, Tregs
Biology Area	Adaptive Immunity, Immunology
Molecular Family	TCRs
Antigen References	1. Marchalonis J, *et al.* 2002. *J. Mol. Recognit.* 15:260.
Gene ID	6955 6957

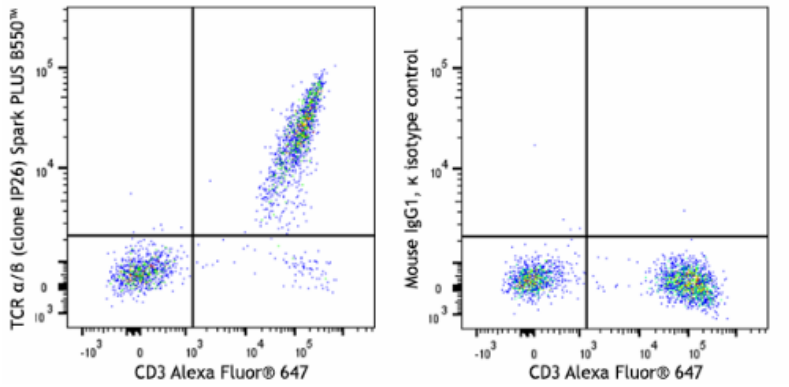
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

TotalSeq™-D0224 anti-human TCR α/β, GMP PE anti-human TCR α/β, APC/Fire™ 810 anti-human TCR α/β, Spark Red™ 718 anti-human TCR α/β (Flexi-Fluor™), Brilliant Violet 605™ anti-human TCR α/β, Brilliant Violet 510™ anti-human TCR α/β, Pacific Blue™ anti-human TCR α/β, FITC anti-human TCR α/β, PE/Cyanine5 anti-human TCR α/β, APC anti-human TCR α/β, PE/Cyanine7 anti-human TCR α/β, PerCP/Cyanine5.5 anti-human TCR α/β, PE anti-human α/β T Cell Receptor, Purified anti-human TCR α/β, GMP FITC anti-human TCR α/β, Spark NIR™ 685 anti-human TCR α/β (Flexi-Fluor™) Antibody, Spark YG™ 581 anti-human TCR α/β (Flexi-Fluor™), Spark PLUS B550™ anti-human TCR α/β, Alexa Fluor® 488 anti-human TCR α/β, PE/Dazzle™ 594 anti-human TCR α/β, APC/Cyanine7 anti-human TCR α/β, Alexa Fluor® 700 anti-human TCR α/β, Brilliant Violet 785™ anti-human TCR α/β, TotalSeq™-C0224 anti-human TCR α/β, TotalSeq™-B0224 anti-human TCR α/β, APC/Fire™ 750 anti-human TCR α/β, Brilliant Violet 421™ anti-human TCR α/β, Spark YG™ 593 anti-human TCR α/β (Flexi-Fluor™) Antibody, Alexa Fluor® 647 anti-human TCR α/β, TotalSeq™-A0224 anti-human TCR α/β, Brilliant Violet 750™ anti-human TCR α/β, Biotin anti-human TCR α/β, Brilliant Violet 650™ anti-human TCR α/β, Brilliant Violet 711™ anti-human TCR α/β, PE anti-human TCR α/β

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Alexa Fluor® 647 and anti-human TCR α/β (clone IP26) Spark PLUS B550™ (left) or mouse IgG1, κ Spark PLUS B550™ isotype control (right). Data shown is gated on the lymphocyte population.

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