

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)	- Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. (FC) - Joseph A, <i>et al.</i> 2008. <i>J. Virol.</i> 82:3078. (FC) PubMed - Pinto JP, <i>et al.</i> 2010. <i>Immunology.</i> 130:217. PubMed
RRID	AB_3720638 (BioLegend Cat. No. 306755)

Antigen Details

Structure	Ig superfamily, with CD3 forms CD3/TCR complex
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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, <i>et al.</i> 2002. <i>J. Mol. Recognit.</i> 15:260.
Gene ID	6955 6957

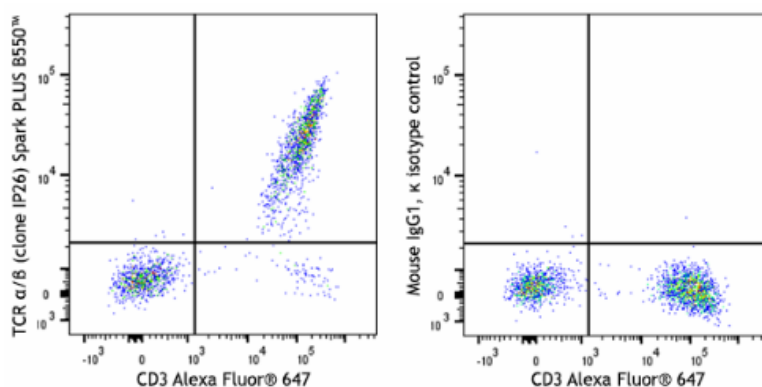
Related Protocols

- [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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