

## FITC anti-human TCR $\alpha/\beta$ Antibody

<b>Catalog# / Size</b>	306705 / 25 tests 306706 / 100 tests
<b>Clone</b>	IP26
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	$\alpha/\beta$ TCR, TCR $\alpha/\beta$
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	The IP26 antibody reacts with a monomorphic determinant of the $\alpha/\beta$ T-cell receptor, which is expressed on greater than 95% of normal peripheral blood CD3 <sup>+</sup> T cells. The $\alpha/\beta$ TCR recognizes a peptide bound to MHC leading to T-cell activation.

### Product Details

---

<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l of whole blood.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	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.
<b>Application References</b> (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> <li>Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. (FC)</li> <li>Joseph A, <i>et al.</i> 2008. <i>J. Virol.</i> 82:3078. (FC) <a href="#">PubMed</a></li> <li>Pinto JP, <i>et al.</i> 2010. <i>Immunology.</i> 130:217. <a href="#">PubMed</a></li> </ol>
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>Cheriana A, <i>et al.</i> 2017. <i>Neurochem Int.</i> 10.1016/j.neuint.2017.05.022. <a href="#">PubMed</a></li> <li>Gantner P, <i>et al.</i> 2020. <i>Nat Commun.</i> 3.297916667. <a href="#">PubMed</a></li> <li>Björklund &amp;, <i>et al.</i> 2016. <i>Nat Immunol.</i> 17:451-460. <a href="#">PubMed</a></li> <li>Wu J, <i>et al.</i> 2021. <i>Front Immunol.</i> 12:601611. <a href="#">PubMed</a></li> <li>Hansen IS, <i>et al.</i> 2018. <i>Nat Commun.</i> 9:863. <a href="#">PubMed</a></li> <li>Lee JM, <i>et al.</i> 2022. <i>Lupus Sci Med.</i> 9:. <a href="#">PubMed</a></li> <li>You M, <i>et al.</i> 2021. <i>Nat Cell Biol.</i> 23:620. <a href="#">PubMed</a></li> <li>Hazenber MD, <i>et al.</i> 2019. <i>Blood Adv.</i> 2.659722222. <a href="#">PubMed</a></li> <li>Du B, <i>et al.</i> 2020. <i>Scand J Immunol.</i> 91:e12872. <a href="#">PubMed</a></li> <li>Golebski K, <i>et al.</i> 2021. <i>Immunity.</i> 54(2):291-307.e7. <a href="#">PubMed</a></li> <li>Mateyka LM, <i>et al.</i> 2022. <i>STAR Protoc.</i> 3:101699. <a href="#">PubMed</a></li> <li>Moosmann C, <i>et al.</i> 2022. <i>STAR Protoc.</i> 3:101031. <a href="#">PubMed</a></li> <li>Müller TR, <i>et al.</i> 2021. <i>Cell Rep Med.</i> 2:100374. <a href="#">PubMed</a></li> </ol>

RRID

AB\_314639 (BioLegend Cat. No. 306705)  
AB\_314644 (BioLegend Cat. No. 306706)

## Antigen Details

<b>Structure</b>	Ig superfamily, with CD3 forms CD3/TCR complex
<b>Distribution</b>	T cells, thymocytes
<b>Function</b>	Antigen recognition, T cell activation
<b>Ligand/Receptor</b>	Peptide bound to MHC
<b>Cell Type</b>	T cells, Thymocytes, Tregs
<b>Biology Area</b>	Adaptive Immunity, Immunology
<b>Molecular Family</b>	TCRs
<b>Antigen References</b>	1. Marchalonis J, <i>et al.</i> 2002. <i>J. Mol. Recognit.</i> 15:260.
<b>Gene ID</b>	<a href="#">6955</a> <a href="#">6957</a>

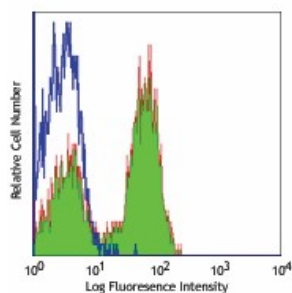
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Biotin anti-human TCR  $\alpha/\beta$ , FITC anti-human TCR  $\alpha/\beta$ , PE anti-human  $\alpha/\beta$  T Cell Receptor, PE/Cyanine5 anti-human TCR  $\alpha/\beta$ , Purified anti-human TCR  $\alpha/\beta$ , PE/Cyanine7 anti-human TCR  $\alpha/\beta$ , Alexa Fluor® 488 anti-human TCR  $\alpha/\beta$ , Alexa Fluor® 647 anti-human TCR  $\alpha/\beta$ , Pacific Blue™ anti-human TCR  $\alpha/\beta$ , APC anti-human TCR  $\alpha/\beta$ , Brilliant Violet 421™ anti-human TCR  $\alpha/\beta$ , PerCP/Cyanine5.5 anti-human TCR  $\alpha/\beta$ , PE/Dazzle™ 594 anti-human TCR  $\alpha/\beta$ , APC/Cyanine7 anti-human TCR  $\alpha/\beta$ , Alexa Fluor® 700 anti-human TCR  $\alpha/\beta$ , Brilliant Violet 510™ anti-human TCR  $\alpha/\beta$ , APC/Fire™ 750 anti-human TCR  $\alpha/\beta$ , Brilliant Violet 605™ anti-human TCR  $\alpha/\beta$ , TotalSeq™-A0224 anti-human TCR  $\alpha/\beta$ , Brilliant Violet 711™ anti-human TCR  $\alpha/\beta$ , Brilliant Violet 785™ anti-human TCR  $\alpha/\beta$ , TotalSeq™-C0224 anti-human TCR  $\alpha/\beta$ , Brilliant Violet 750™ anti-human TCR  $\alpha/\beta$ , TotalSeq™-B0224 anti-human TCR  $\alpha/\beta$ , PE anti-human TCR  $\alpha/\beta$ , APC/Fire™ 810 anti-human TCR  $\alpha/\beta$ , TotalSeq™-D0224 anti-human TCR  $\alpha/\beta$ , GMP PE anti-human TCR  $\alpha/\beta$

## Product Data



Human peripheral blood lymphocytes stained with IP26 FITC

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587