

## Brilliant Violet 605™ anti-human TGF-β Receptor II Antibody

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|--------------------------|---|
| <b>Catalog# / Size</b>   | 399721 / 25 tests   |
| <b>Clone</b>             | W17055E   |
| <b>Regulatory Status</b> | RUO   |
| <b>Other Names</b>       | TGFR1I, TGFR2, TGFR-2, TβRII, TGFbeta-R1I, TGF-Beta Receptor Type II, TGF-Beta Receptor Type-2  |
| <b>Isotype</b>           | Rat IgG2b, κ  |
| <b>Description</b>       | Transforming growth factor beta receptor 2 (TGFβR2 or TGFβRII) forms a heterodimeric complex on the cell surface with TGFβR1. TGFβR2 binds TGF-beta and is important for cell proliferation, wound healing, immunosuppression, and tumorigenesis. |

### Product Details

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| <b>Verified Reactivity</b>    | Human  |
| <b>Antibody Type</b>          | Monoclonal   |
| <b>Host Species</b>           | Rat  |
| <b>Immunogen</b>              | TGFβR2 protein (aa 1-243) expressing transfectants   |
| <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 Brilliant Violet 605™ under optimal conditions.   |
| <b>Concentration</b>          | Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)  |
| <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>      | <p>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 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.</p> <p>Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p> |
| <b>Excitation Laser</b>       | Violet Laser (405 nm)  |

### Antigen Details

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| <b>Distribution</b>     | B cells, T cells, monocytes, and granulocytes.                    |
| <b>Ligand/Receptor</b>  | TGFbR2 forms a heterodimeric complex with TGFbR1 and binds TGF-β. |
| <b>Cell Type</b>        | B cells, Monocytes, T cells                                       |
| <b>Biology Area</b>     | Immunology  |
| <b>Molecular Family</b> | Cytokines/Chemokines  |

**Antigen References**

1. Horbelt D, *et al.* 2010. *J Cell Sci.* 123:4340-50.
2. Wei CY, *et al.* 2015. *Int J Clin Exp Pathol.* 8:14619-29.
3. Numata S, *et al.* 2008. *J Psychiatr Res.* 42:425-32.

**Gene ID** [7048](#)

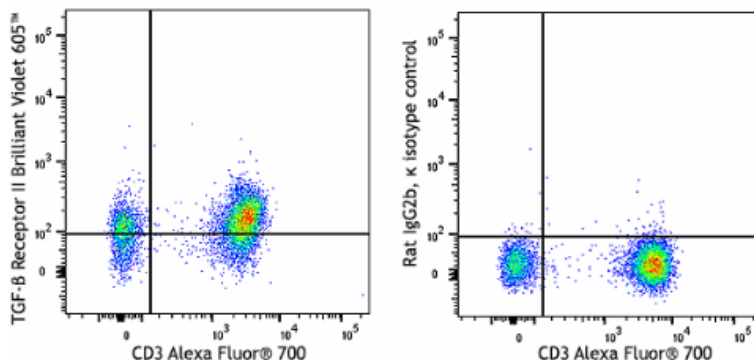
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human TGF-β Receptor II, PE anti-human TGF-β Receptor II, APC anti-human TGF-β Receptor II, TotalSeq™-D1171 anti-human TGF-β Receptor II, Brilliant Violet™ 421 anti-human TGF-β Receptor II, PE/Dazzle™ 594 anti-human TGF-β Receptor II, PE/Cyanine7 anti-human TGF-β Receptor II, TotalSeq™-A1171 anti-human TGF-β Receptor II, TotalSeq™-C1171 anti-human TGF-β Receptor II, TotalSeq™-B1171 anti-human TGF-β Receptor II, Brilliant Violet 605™ anti-human TGF-β Receptor II Antibody

## Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Alexa Fluor® 700 and anti-human TGF-β Receptor II (clone W17055E) Brilliant Violet 605™ (left) or rat IgG2b, κ Brilliant Violet 605™ isotype control (right).

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