

Human TL1A/TNFSF15 Alexa Fluor[®] 594-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2116A Catalog Number: FAB74422T

100 µg

| DESCRIPTION | | | |
|--------------------|---|--|--|
| Species Reactivity | Human | | |
| Specificity | Detects human TL1A/TNFSF15 in direct ELISAs. | | |
| Source | Recombinant Monoclonal Rabbit IgG Clone # 2116A | | |
| Purification | Protein A or G purified from cell culture supernatant | | |
| Immunogen | <i>E. coli</i> -derived recombinant human TL1A/TNFSF15 Leu72-Leu251 Accession # O95150 | | |
| Conjugate | Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm | | |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. | | |

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

| APPLICATIONS | | | |
|---|---------------------------------|------------------------|--|
| Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. | | | |
| | Recommended Concentration | Sample | |
| Flow Cytometry | 0.25-1 µg/10 ⁶ cells | Human PBMC lymphocytes | |

PREPARATION AND STORAGE Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

TL1A is a type II transmembrane protein belonging to the TNF superfamily and has been designated TNF superfamily member 15 (TNFSF15). Human TL1A is a 251 aa protein consisting of a 35 aa cytoplasmic domain, a 24 aa transmembrane region and a 192 aa C-terminal extracellular domain. It is a longer variant of the previously cloned TL1 (also known as VEGI) that is possibly a cloning artifact. TL1A is predominantly expressed in endothelial cells and its expression is inducible by TNF-a and IL-1a. TL1A binds with high affinity to death receptor 3 (DR3), which is now designated TNF receptor superfamily member 25 (TNFRSF25). DR3 was formerly designated TNFRSF12 when it was thought to be the receptor for TWEAK/TNFSF12. DR3 is expressed primarily on activated T cells. Depending on the cell context, ligation of DR3 by TL1A can trigger one of two signaling pathways, activation of the transcription factor NF-kappa-B or activation of caspases and apoptosis. On primary T cells, TL1A induces NF-kappa-B activation and a costimulatory signal to increase IL-2 responsiveness and the secretion of proinflammatory cytokines. However, in a tumor cell line, TF-1, TL1A has been shown to induce caspase activity and apoptosis. These effects of TL1A are blocked by the secreted, soluble decoy receptor 3 (DcR3), also known as TR6 and TNFRSF6B, which compete with DR3 for binding to TL1A. Consistent with the observed in vitro activities, TL1A promotes ex vivo splenocyte expansion and enhances in vivo graft-versus-host-response.

References:

1. Migone, T.S. et al. (2002) Immunity 16:479

PRODUCT SPECIFIC NOTICES

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Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449