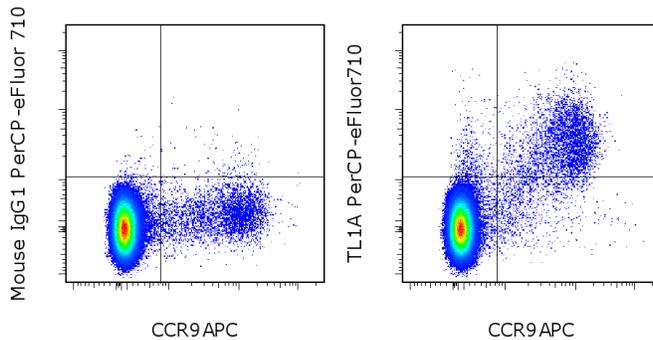


## Anti-Human/Mouse TL1A PerCP-eFluor® 710

**Catalog Number:** 46-7911

**Also known as:** TNFSF15, VEGI, Tumor necrosis factor ligand superfamily member 15

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Normal human peripheral blood cells were stained with Fixable Viability Dye (FVD) eFluor® 780 (cat. 65-0865), then washed and stained with Anti-Human CD4, Anti-Human CCR9, and 0.25 µg of Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4714) (left) or 0.25 µg of Anti-Human/Mouse TL1A PerCP-eFluor® 710 (right). Viable CD4+ lymphocytes were used for analysis.

### Product Information

**Contents:** Anti-Human/Mouse TL1A PerCP-eFluor® 710

**REF** **Catalog Number:** 46-7911

**Clone:** Tandys1a

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



### Description

The Tandys1a monoclonal antibody reacts with human and mouse TL1A (TNFSF15). TL1A is a member of the TNF ligand family and is expressed by endothelial cells, tissue macrophages, monocyte-derived dendritic cells, plasma cells and lamina propria-derived lymphocytes. Among peripheral blood cells, TL1A has been shown to be expressed predominantly by CD4+CCR9+ lymphocytes. Its expression has been shown to be induced by TNF alpha, IL-1 alpha and IFN gamma. TL1A binds DR3, which has been shown to be specifically upregulated in Th17 cells among CD4+ T cells. TL1A-deficient dendritic cells are weak in their ability to support Th17 cells in vitro and show decreased severity of EAE. In vivo, TL1A has been shown to be upregulated in tissue lymphocytes of Crohn's Disease and ulcerative colitis patients.

### Applications Reported

This Tandys1a antibody has been reported for use in flow cytometric analysis, and intracellular staining followed by flow cytometric analysis.

### Applications Tested

This Tandys1a antibody has been tested by flow cytometric analysis of normal human peripheral blood cells or mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

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### References

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Jones GW, Stumhofer JS, Foster T, Twohig JP, Hertzog P, Topley N, Williams AS, Hunter CA, Jenkins BJ, Wang EC, Jones SA. Naïve and activated T cells display differential responsiveness to TL1A that affects Th17 generation, maintenance, and proliferation. *FASEB J.* 2011 Jan;25(1):409-19.

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Prehn JL, Thomas LS, Landers CJ, Yu QT, Michelsen KS, Targan SR. The T cell costimulator TL1A is induced by FcγR signaling in human monocytes and dendritic cells. *J Immunol.* 2007 Apr 1;178(7):4033-8.

Papadakis KA, Zhu D, Prehn JL, Landers C, Avanesyan A, Lafkas G, Targan SR. Dominant role for TL1A/DR3 pathway in IL-12 plus IL-18-induced IFN-γ production by peripheral blood and mucosal CCR9+ T lymphocytes. *J Immunol.* 2005 Apr 15;174(8):4985-90.

### Related Products

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)

65-0865 Fixable Viability Dye eFluor® 780

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