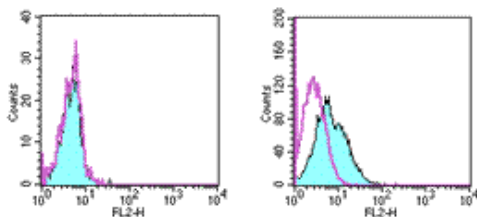


## Anti-Mouse CD255 (TWEAK) PE

Catalog Number: 12-9913

Also Known As: TNF-related weak inducer of apoptosis, APO3L

RUO: For Research Use Only



Staining of non-transfected (left) and CD255-transfected (right) L5178Y cells with 0.125 µg of Rat IgG1 κ Isotype Control PE (cat. 12-4301) (open histogram) or 0.125 µg of Anti-Mouse CD255 (TWEAK) PE (filled histogram). Total viable cells were used for analysis.

### Product Information

Contents: Anti-Mouse CD255 (TWEAK) PE


**REF** Catalog Number: 12-9913

Clone: MTW-1

Concentration: 0.2 mg/ml


Host/Isotype: Rat IgG1, κ

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.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The MTW-1 monoclonal antibody reacts with mouse TWEAK, a type II transmembrane TNF superfamily member with high identity to TNF in its extracellular portion. TWEAK transcript is expressed broadly in many adult and fetal tissues. TWEAK is expressed as membrane bound and secreted forms. Interaction of TWEAK with its counter-receptor (Fn14, TWEAK-R) promotes secretion of IL-8, activation of NF-κB, proliferation of endothelial cells, and apoptosis in a number of human cell lines. Initially, DR3 was thought to be a receptor for TWEAK, but further studies have shown that TWEAK could induce apoptosis via receptors distinct from DR3. While TWEAK exhibits overlapping signaling functions to TNF, it is generally less effective in inducing apoptosis, giving rise to its name, TNF-like weak inducer of apoptosis.

### Applications Reported

MTW-1 has been reported for use in flow cytometric analysis.

### Applications Tested

The MTW-1 antibody has been tested by flow cytometric analysis of mouse TWEAK-transfected cells and can be used at less than or equal to 0.25 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.

### References

- Nakayama M, Harada N, Okumura K, Yagita H. Characterization of murine TWEAK and its receptor (Fn14) by monoclonal antibodies. *Biochem Biophys Res Commun*. 2003 Jul 11;306(4):819-25.
- Nakayama, M., N. Kayagaki, et al. (2000). "Involvement of TWEAK in Interferon {gamma}-stimulated Monocyte Cytotoxicity." *J. Exp. Med.* 192(9): 1373-1380.
- Chicheportiche, Y., P. R. Bourdon, et al. (1997). "TWEAK, a new secreted ligand in the tumor necrosis factor family that weakly induces apoptosis." *J Biol Chem* 272(51): 32401-10.
- Kaplan, M. J., D. Ray, et al. (2000). "TRAIL (Apo2 ligand) and TWEAK (Apo3 ligand) mediate CD4+ T cell killing of antigen-presenting macrophages [In Process Citation]." *J Immunol* 164(6): 2897-904.
- Lynch, C. N., Y. C. Wang, et al. (1999). "TWEAK induces angiogenesis and proliferation of endothelial cells." *J Biol Chem* 274(13): 8455-9.

### Related Products

12-4301 Rat IgG1 K Isotype Control PE

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