full spectrum cell analysis®
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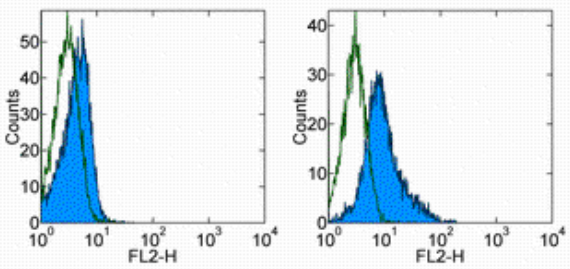
Anti-Human CD266 (TWEAK Receptor) PE

Catalog Number: 12-9019
Also Known As:TNFRSF12A , TWEAKR, Fibroblast growth factor-inducible 14, Fn14
RUO: For Research Use Only



Staining of non-transfected (left) and human CD266-transfected (right) L5178Y cells with 0.25 ug of Mouse IgG1 kappa Isotype Control PE (cat. 12-4714) (open histogram) or 0.25 ug of Anti-Human CD266 (TWEAK Receptor) PE (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD266 (TWEAK Receptor) PE
REF **Catalog Number:** 12-9019
Clone: ITEM-1
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.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The ITEM-1 mAb reacts with human TWEAK Receptor/Fn14 (fibroblast growth factor-inducible 14 kDa protein). Fn14 is distantly related to the TNFR family, containing one cysteine-rich domain in the extracellular region and a TNFR-associated factor binding domain but does not contain a death domain (DD) cytoplasmic region. Fn14 plays a role in TWEAK-induced endothelial cell migration, proliferation, and angiogenesis. TWEAK-induced cell death via Fn14 includes both apoptosis and necrosis and can be blocked by an anti-TWEAK antibody, CARL-1. Fn14 is expressed on HUVEC and in some cancer tissues but not on freshly isolated PBMCs. Fn14 mRNA expression has been identified during liver regeneration.

Applications Reported

The ITEM-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The ITEM-1 antibody has been tested by flow cytometric analysis on human Fn14 transfected cells. This 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Nakayama, M., K. Ishidoh, Y. Kojima, N. Harada, E. Kominami, K. Okumura, H. Yagita. 2003. Fibroblast Growth Factor-Inducible 14 Mediates Multiple Pathways of TWEAK-Induced Cell Death. The Journal of Immunology, 170: 341-348.

Harada N., M. Nakayama, H. Nakano, Y. Fukuchi, H. Yagita, K. Okumura. 2002. Pro-inflammatory Effect of TWEAK/Fn14 Interaction on Human Umbilical Vein Endothelial Cells. Biochem Biophys Res Commun, 299(3):488-93.

Nakayama M, K. Ishidoh, N. Kayagaki, Y. Kojima, N. Yamaguchi, H. Nakano, E. Kominami, K. Okumura, H. Yagita. 2002. Multiple pathways of TWEAK-induced cell death. J Immunol, 168(2):734-43

Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.1)
16-9016 Anti-Human/Mouse CD266 (TWEAK Receptor) Functional Grade Purified (ITEM-2)