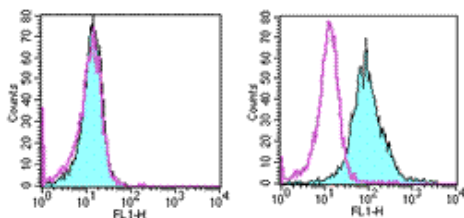


Anti-Human CD266 (TWEAK Receptor) Purified

Catalog Number: 14-9019

Also Known As: TNFRSF12A , TWEAKR, Fibroblast growth factor-inducible 14, Fn14

RUO: For Research Use Only



Staining of non-transfected (left) and human Fn14 transfected (right) L5178Y cells with 1.0 ug of Mouse IgG1 kappa Isotype Control Purified (cat.11-4714) (open histogram) or 0.5 ug of Anti-Human CD266 (TWEAK Receptor) Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat.11-4011). Total viable cells were analyzed.

Product Information

Contents: Anti-Human CD266 (TWEAK Receptor) Purified

REF **Catalog Number:** 14-9019

Clone: ITEM-1

Concentration: 0.5 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.

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, and immunohistochemical staining of frozen tissue sections. It has also been reported in induction of cell death in transfected cells. (Please use Functional Grade purified ITEM-1 in functional assays.)

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 1 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 10⁵ to 10⁸ 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

11-4011 Anti-Mouse IgG FITC

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.1)

16-9016 Anti-Human/Mouse CD266 (TWEAK Receptor) Functional Grade Purified (ITEM-2)

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