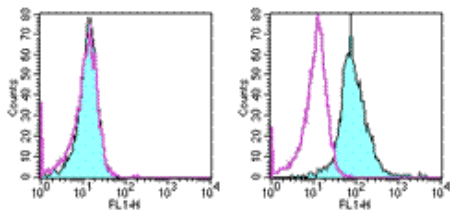


## Anti-Human/Mouse CD266 (TWEAK Receptor) Purified

Catalog Number: 14-9018

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

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



Staining of non-transfected (left) and human Fn14 transfected (right) L5178Y cells with 0.5 ug of Mouse IgG2a K Isotype Control Purified (cat. 14-4732) (open histogram) or 0.5 ug Anti-Human/Mouse 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/Mouse CD266 (TWEAK Receptor) Purified

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

**REF** Catalog Number: 14-9018

**Clone:** ITEM-4

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Mouse IgG2b, kappa

**Temperature Limitation:** Store at 2-8°C.

**LOT** Batch Code: Refer to Vial

**Use By:** Refer to Vial

**Contains sodium azide**

### Description

The ITEM-4 antibody 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. It has been reported that ITEM-4 cross-reacts with mouse Fn14. In the mouse, Fn14 is reported to be constitutively expressed by Colon 26 cell line.

The ITEM-4 antibody has been shown to have blocking function.

### Applications Reported

The ITEM-4 antibody has been reported for use in flow cytometric analysis, immunoblotting (WB), and immunohistochemical staining of frozen tissue sections.

### Applications Tested

The ITEM-4 antibody has been tested by flow cytometric analysis on human and mouse 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 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

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Moreno JA, Muñoz-García B, Martín-Ventura JL, Madrigal-Matute J, Orbe J, Páramo JA, Ortega L, Egido J, Blanco-Colio LM The CD163-expressing macrophages recognize and internalize TWEAK: potential consequences in atherosclerosis. *Atherosclerosis.* 2009 Nov;207(1):103-10 (ITEM-4, WB, PubMed)

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

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**Related Products**

11-4011 Anti-Mouse IgG FITC  
11-4317 Streptavidin FITC  
12-4317 Streptavidin PE  
12-9019 Anti-Human CD266 (TWEAK Receptor) PE (ITEM-1)  
13-4013 Anti-Mouse IgG Biotin (Polyclonal)  
14-4732 Mouse IgG2b K Isotype Control Purified  
14-9016 Anti-Human/Mouse CD266 (TWEAK Receptor) Purified (Discontinued - refer to Cat. No. 14-9018) (ITEM-2)  
14-9019 Anti-Human CD266 (TWEAK Receptor) Purified (ITEM-1)  
16-9016 Anti-Human/Mouse CD266 (TWEAK Receptor) Functional Grade Purified (ITEM-2)  
17-4317 Streptavidin APC

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