

# Product Data Sheet

## Biotin anti-human/mouse CD266 (Fn14, TWEAK R)

**Catalog # / Size:** 314103 / 25 µg

**Clone:** ITEM-4

**Isotype:** Mouse IgG2b, κ

**Immunogen:** Human Fn14 transfected P815

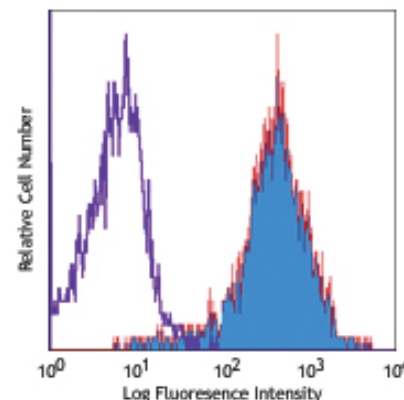
**Reactivity:** Human, Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Human Fn14 transfected cells stained with biotinylated ITEM-4, followed by Sav-PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemistry of acetone-fixed frozen sections. ITEM-4 antibody has no effect on TWEAK-induced MAPK activation in RAW cells<sup>1</sup>.

**Application References:** 1. Polek TC, *et al.* 2003. *J. Biol. Chem.* 278:32317.  
2. Nakayama M, *et al.* 2003. *J. Immunol.* 170:341.

**Description:** CD266 is a 14 kD transmembrane protein known as TWEAK receptor (TWEAK-R) or fibroblast growth factor inducible 14 (Fn14). It is member 12A of the tumor necrosis factor receptor superfamily (TNFRSF12A) expressed at low levels in a variety of tissues, such as heart, placenta, lung, muscle, and pancreas. TWEAK-R binds TWEAK (CD255) and interacts with the cytoplasmic proteins TRAF1, 2, and 3. The engagement of Fn14 can induce cell death and may play a role in inflammation, hepatocyte growth, and liver neoplasia.

**Antigen References:** 1. Feng SL, *et al.* 2000. *Am. J. Path.* 156:1253.  
2. Meighan-Mantha RL, *et al.* 1999. *J. Biol. Chem.* 274:33166.  
3. Nakayama M, *et al.* 2003. *J. Immunol.* 170:341.  
4. Lynch CN, *et al.* 1999. *J. Biol. Chem.* 274:8455.

### Related Products:

**Product**  
 Biotin Mouse IgG2b, κ Isotype Ctrl  
 HRP Streptavidin  
 PE Streptavidin  
 Cell Staining Buffer  
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

**Clone**  
 MPC-11

### Application

FC, ICFC  
 ELISA, ELISPOT, IHC, WB  
 FC, ICFC  
 FC, ICC, ICFC  
 FC, ICC, ICFC



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