

Product Data Sheet

LEAF™ Purified anti-human CD266 (Fn14, TWEAK R)

Catalog # / Size: 314006 / 500 µg

Clone: ITEM-1

Isotype: Mouse IgG1, κ

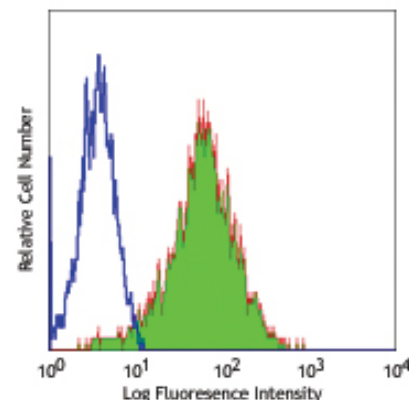
Immunogen: Human Fn14 transfected P815

Reactivity: Human

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml



Human Fn14 transfected cells stained with LEAF™ purified ITEM-1, followed by anti-mouse IgG FITC

Applications:

Applications: FC - *Quality tested*
 WB, IHC, Apop - *Reported in the literature*

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 or 100 µl of whole blood. 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, and *in vitro* induction of caspase-dependent cell death^{1,2}. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 314006).

Application References: 1. Nakayama M, *et al.* 2003. *J. Immunol.* 170:341. (Apop)
 2. Felli N, *et al.* 2005. *J. Immunol.* 175:1464. (Apop)

Description: TWEAK receptor is also known as fibroblast growth factor inducible 14 kD protein (Fn14) or CD266. It is a 14 kD transmembrane protein that is expressed on a variety of tissue types. This receptor binds TWEAK and interacts with the cytoplasmic proteins TRAF1, 2, and 3. The TWEAK receptor is rapidly induced during liver regeneration and may play a role in hepatocyte growth. TWEAK receptor engagement can induce cell death and may play a role in inflammation. The ITEM-1 antibody is useful for flow cytometric analysis, induction of tumor cells apoptosis or necrotic cell death, enhancing endothelial cell proliferation, and immunohistochemistry on frozen tissues.

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
 HRP Goat anti-mouse IgG (minimal x-reactivity)
 LEAF™ Purified Mouse IgG1, κ Isotype Ctrl
 PE Goat anti-mouse IgG (minimal x-reactivity)
 Cell Staining Buffer

Clone
 Poly4053
 MOPC-21
 Poly4053

Application
 ELISA, IHC, WB
 FC, ICFC, WB, IP, ICC, IF, FA
 FC
 FC, ICC, ICFC



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