

Product Data Sheet

PE anti-human CD255 (TWEAK)

Catalog # / Size: 308305 / 25 tests

Clone: CARL-1

Isotype: Mouse IgG3, κ

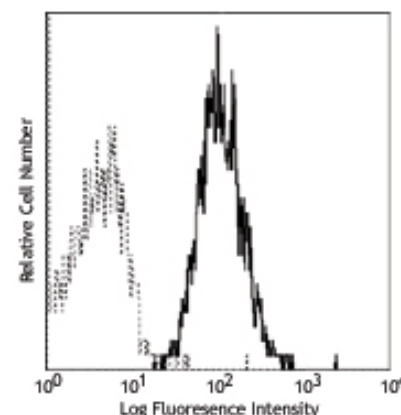
Immunogen: hTWEAK/2PK-3 transfectant cells

Reactivity: Human

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human TWEAK transfected cells
stained with Carl-1 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: **Flow Cytometry:** For most successful immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 308306) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody (Cat. No. 308304) or biotinylated anti-mouse IgG second step (Cat. No. 405303), followed by SAV-PE (Cat. No. 405204)).
ELISA Detection: The biotinylated CARL-1 antibody is useful as the detection antibody in sandwich ELISA for measuring human TWEAK protein, in combination with CARL-2 antibody (Cat. No. 308402) used as ELISA capture.
Neutralization^{1,2}: In a dose-dependent manner, CARL-1 is more effective than CARL-2¹. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 308307).

Application References: 1. Nakayama, M., *et al.* 2000. *J. Exp. Med.* 192:1373. (Neut)
 2. Nakayama, M., *et al.* 2003. *J. Immunol.* 170:341. (Neut)

Description: TNF-like weak inducer of apoptosis (TWEAK) is a type II transmembrane TNF superfamily member with strong homology to TNF in its extracellular portion, though less potent in inducing apoptosis. It has been clustered as CD255. TWEAK transcript is expressed broadly in many adult and fetal tissues; however, the staining of human peripheral blood mononuclear cells with TWEAK-specific antibodies shows a more restricted pattern. TWEAK is expressed as membrane-bound and secreted forms. Interaction of TWEAK with its receptors (DR3, Fn14) promotes secretion of IL-8, activation of NF- κ B, proliferation of endothelial cells, and apoptosis in a number of human cell lines.

Antigen References: 1. Fitzgerald, K., *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press, San Diego.
 2. Chicheportiche, Y., *et al.* 1997. *J. Biol. Chem.* 272:32401.
 3. Kaplan, M., *et al.* 2000. *J. Immunol.* 164:2897.
 4. Saas, P., *et al.* 2000. *Glia* 32:102.
 5. Wiley, S., *et al.* 2001. *Immunity* 15:837.

Related Products:

Product
 Cell Staining Buffer
 Fixation Buffer
 Permeabilization Wash Buffer (10X)
 RBC Lysis Buffer (10X)
 Brefeldin A Solution (1,000X)
 Monensin Solution (1,000X)
 PE Mouse IgG3, κ Isotype Ctrl
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MG3-35

Application

FC, ICC, ICFC
 ICC, ICFC
 ICC, ICFC, IHC
 FC, ICFC
 ICFC
 ICFC
 FC, ICFC
 FC, ICC, ICFC



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