

Product Data Sheet

Purified anti-human CD255 (TWEAK)

Catalog # / Size: 308402 / 100 µg
Clone: CARL-2
Isotype: Mouse IgM, κ
Immunogen: hTWEAK/2PK-3 transfectant cells
Reactivity: Human
Preparation: This antibody is at >85% purity.
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.

Applications:

Applications: ELISA Capture - *Quality tested*
 FC - *Validated*

Recommended Usage: Each lot of this antibody is quality control tested by sandwich ELISA. For ELISA capture applications, a concentration range of 1-4 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

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 or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated anti-mouse IgG second step (Cat. No. 405303), followed by SAV-PE (Cat. No. 405204)).
ELISA Capture: The purified CARL-2 antibody is useful as the capture antibody in a sandwich ELISA assay, when used in conjunction with the biotinylated CARL-1 antibody (Cat. No. 308304) as the detecting antibody.
Neutralization¹: In a dose-dependent manner, CARL-1 is more effective than CARL-2¹. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 308403).

Application References: 1. Nakayama, M. 2000. *J. Exp. Med.* 192:1373.

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-κB, proliferation of endothelial cells, and apoptosis in a number of human cell lines. The CARL-2 antibody can neutralize the bioactivity of natural or recombinant TWEAK.

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
 Purified Mouse IgM, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 Biotin anti-human CD255 (TWEAK)
 Purified anti-human CD255 (TWEAK)
 Recombinant Human CD255 (TWEAK)
 HRP Avidin
 TMB Substrate Reagent Set
 ELISA Assay Diluent (5X)

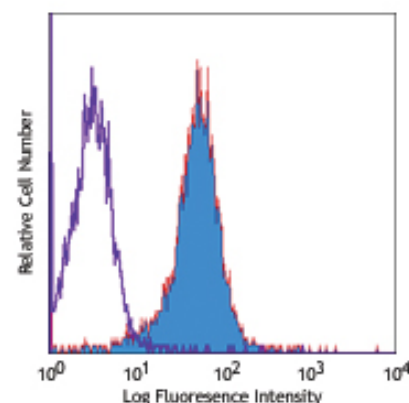
Clone
 MM-30

CARL-1
 CARL-1

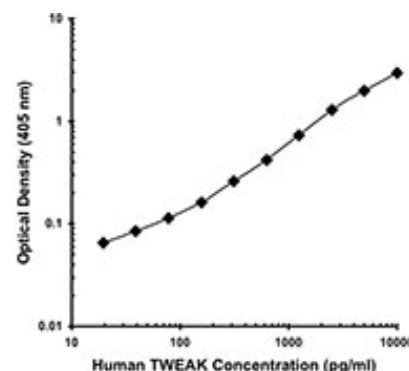
Avidin

Application

FC, ICFC, ICC, IF
 FC, ICC, ICFC
 FC, ICFC
 ELISA Detection, FC
 FC, IHC
 BA, ELISA
 ELISA, ELISPOT, IHC, WB
 ELISA
 ELISA



Human TWEAK transfected cells stained with purified Carl-2, followed by biotinylated anti-mouse IgG and Sav-PE



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