

Technical Data Sheet

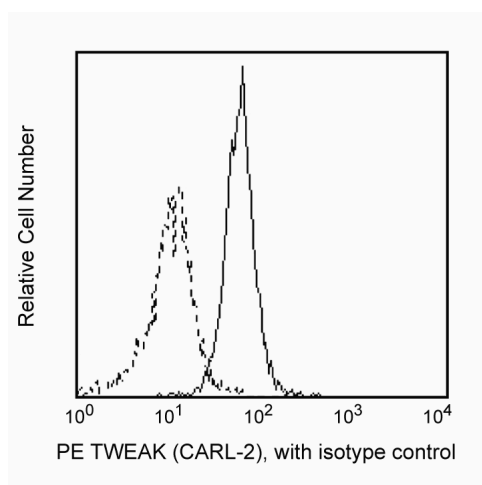
PE Mouse Anti-Human TWEAK (CD255)

Product Information

Material Number:	552890
Alternate Name:	CD255; TWEAK; TNFSF12; APO3 ligand; APO3L; DR3LG
Size:	100 Tests
Vol. per Test:	20 µl
Clone:	CARL-2
Immunogen:	Human TWEAK Transfected Cell Line
Isotype:	Mouse (BALB/c) IgM, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA, protein stabilizer, and ≤0.09% sodium azide.

Description

The CARL-2 monoclonal antibody specifically binds to TWEAK (TNF-related WEAK inducer of apoptosis), a type II transmembrane protein of approximately 1.4 kDa. TWEAK is also known as CD255. It is present as a cell surface bound or a secreted form, expressed on most tissues and non-lymphoid tumor cell lines, but weak or no expression on hematopoietic lineage lines. TWEAK is not detectable on resting PBMC, but its expression on peripheral blood monocytes is upregulated upon IFN-γ stimulation. Reports indicate that TWEAK interacts with its receptor APO-3 and this interaction can lead to apoptosis, IL-8 secretion, NF-κB activation and endothelial cell proliferation. Clone CARL-1, a different monoclonal antibody, also reacts with CD255 (TWEAK) but to a different epitope.



Profile of TWEAK (CD255) reactivity on TWEAK transfectant cell line analyzed by flow cytometry

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555584	PE Mouse IgM, κ Isotype Control	100 Tests	G155-228
554656	Stain Buffer (FBS)	500 mL	(none)
552831	PE Mouse Anti-Human (CD255) TWEAK	100 Tests	CARL-1

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552890 Rev. 3



Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
6. An isotype control should be used at the same concentration as the antibody of interest.

References

Chicheportiche Y, Bourdon PR, Xu H, et al. TWEAK, a new secreted ligand in the tumor necrosis factor family that weakly induces apoptosis. *J Biol Chem.* 1997; 272(51):32401-32410. (Biology)

Kaplan MJ, Ray D, Mo RR, Yung RL, Richardson BC. TRAIL (Apo2 ligand) and TWEAK (Apo3 ligand) mediate CD4+ T cell killing of antigen-presenting macrophages. *J Immunol.* 2000; 164(6):2897-2904. (Biology)

Lynch CN, Wang YC, Lund JK, Chen YW, Leal JA, Wiley SR. TWEAK induces angiogenesis and proliferation of endothelial cells. *J Biol Chem.* 1999; 274(13):8455-8459. (Biology)

Nakayama M, Kayagaki N, Yamaguchi N, Okumura K, Yagita H. Involvement of TWEAK in interferon gamma-stimulated monocyte cytotoxicity. *J Exp Med.* 2000; 192(9):1373-1380. (Clone-specific: Blocking, Flow cytometry, Functional assay, Inhibition)

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