

TECHNICAL DATA SHEET

CyFlow™ CD255 Purified Anti-Hu; Clone CARL-1

REF CU480628

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD255
Alternative Names	TWEAK
Clone	CARL-1
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG3
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human CD255-transfected 2PK-3 cells

Specificity

The mouse monoclonal antibody CARL-1 recognizes CD255 (TWEAK) antigen, a type II transmembrane protein of the TNF superfamily able to weakly induce apoptosis in many cell types.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunohistochemistry
- Functional assays

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD255 (TWEAK; TNF-related weak inducer of apoptosis), a type II transmembrane protein expressed as membrane-bound and secreted form, can induce apoptosis in many tissues and cell lines through its receptor CD266 (TWEAK R). On the other hand, in endothelial cells this interaction can induce proliferation and promote angiogenesis including neovascularization of tumors. CD255 can act in a juxtacrine manner to initiate cellular responses, and induces secretion of pro-inflammatory cytokines. Besides CD266, CD255 may also bind to DR3.

References

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- Saitoh T, Nakayama M, Nakano H, Yagita H, Yamamoto N, Yamaoka S: TWEAK induces NF-kappaB2 p100 processing and long lasting NF-kappaB activation. J Biol Chem. 2003 Sep 19; 278(38):36005-12. < PMID: 12840022 >

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- Yoriki R, Akashi S, Sho M, Nomi T, Yamato I, Hotta K, Takayama T, Matsumoto S, Wakatsuki K, Migita K, Yagita H, Nakajima Y: Therapeutic potential of the TWEAK/Fn14 pathway in intractable gastrointestinal cancer. Exp Ther Med. 2011 Jan; 2(1):103-108. < PMID: 22977477 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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