EXBIO Antibodies

PRODUCT DATA SHEET

11-756-C100

Monoclonal Antibody to CD255 / TWEAK Purified Antibody (0.1 mg)

Clone:	CARL-1
Isotype:	Mouse IgG3
Specificity:	The mouse monoclonal antibody CARL-1 recognizes CD255 / TWEAK, a type II transmembrane protein of the TNF superfamily able to weakly induce apoptosis in many cell types.
Regulatory Status:	RUO
Immunogen:	human CD255-transfected 2PK-3 cells
Species Reactivity:	Human
Application:	Flow Cytometry Immunohistochemistry Functional Application neutralization
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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 tumours. 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.

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz

References:

*Nakayama M, Kayagaki N, Yamaguchi N, Okumura K, Yagita H: Involvement of TWEAK in interferon gamma-stimulated monocyte cytotoxicity. J Exp Med. 2000 Nov 6;192(9):1373-80.

*Brown SA, Ghosh A, Winkles JA: Full-length, membrane-anchored TWEAK can function as a juxtacrine signaling molecule and activate the NF-kappaB pathway. J Biol Chem. 2010 Jun 4;285(23):17432-41.

*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.

*Hosokawa Y, Hosokawa I, Ozaki K, Nakae H, Matsuo T: Proinflammatory effects of tumour necrosis factor-like weak inducer of apoptosis (TWEAK) on human gingival fibroblasts. Clin Exp Immunol. 2006 Dec;146(3):540-9.

*Nakayama M, Ishidoh K, Kojima Y, Harada N, Kominami E, Okumura K, Yagita H: Fibroblast growth factor-inducible 14 mediates multiple pathways of TWEAK-induced cell death. J Immunol. 2003 Jan 1;170(1):341-8.

*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

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz