

11-755-C100

Monoclonal Antibody to CD266 / TWEAK R Purified Antibody (0.1 mg)

Clone:	ITEM-4
Isotype:	Mouse IgG2b
Specificity:	The mouse monoclonal antibody ITEM-4 recognizes CD266 / TWEAK R, a TNFR superfamily receptor for CD255 / TWEAK, a TNF-like weak inducer of apoptosis.
Regulatory Status:	RUO
Immunogen:	human CD266-transfected P815 cells
Species Reactivity:	Human, Mouse
Application:	Flow Cytometry Western Blotting Immunohistochemistry (frozen sections) Functional Application blocking
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:	CD266 / TWEAK R (TNFRSF12A), also known as FN14 (fibroblast growth factor-inducible 14) is a receptor for CD255 / TWEAK, the TNF-like weak inducer of apoptosis. CD266 is expressed on endothelial cells, as well as on some cancer tissues, and plays a role in CD255-induced endothelial cell migration, proliferation, and angiogenesis. The CD255-CD266 interaction, or antibody-mediated triggering of CD266 is also able to induce apoptosis and necrosis in CD266-positive cells (including tumor cells), which might have therapeutic potential.

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Antibodies

- References:**
- *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
 - *Sanz AB, Sanchez-Nieto MD, Carrasco S, Manzarbeitia F, Ruiz-Andres O, Selgas R, Ruiz-Ortega M, Gonzalez-Enguita C, Egido J, Ortiz A: Inflammatory cytokines and survival factors from serum modulate tweek-induced apoptosis in PC-3 prostate cancer cells. *PLoS One.* 2012;7(10):e47440.
 - *Roos C, Wicovsky A, Müller N, Salzmann S, Rosenthal T, Kalthoff H, Trauzold A, Seher A, Henkler F, Kneitz C, Wajant H: Soluble and transmembrane TNF-like weak inducer of apoptosis differentially activate the classical and noncanonical NF-kappa B pathway. *J Immunol.* 2010 Aug 1;185(3):1593-605.

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