

CD266 (TWEAK Receptor) Monoclonal Antibody (ITEM-4), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	ITEM-4
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_466960

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	-
Functional Assay (FN)	-	1 Publication

Product Specific Information

Description: The ITEM-4 antibody reacts with human TWEAK Receptor/Fn14 (fibroblast growth factor-inducible 14 kDa protein). Fn14 is distantly related to the TNFR family, containing one cysteine-rich domain in the extracellular region and a TNFR-associated factor binding domain but does not contain a death domain (DD) cytoplasmic region. Fn14 plays a role in TWEAK-induced endothelial cell migration, proliferation, and angiogenesis. TWEAK-induced cell death via Fn14 includes both apoptosis and necrosis and can be blocked by an anti-TWEAK antibody, CARL-1. Fn14 is expressed on HUVEC and in some cancer tissues but not on freshly isolated PBMCs. Fn14 mRNA expression has been identified during liver regeneration. It has been reported that ITEM-4 cross-reacts with mouse Fn14. In the mouse, Fn14 is reported to be constitutively expressed by Colon 26 cell line.

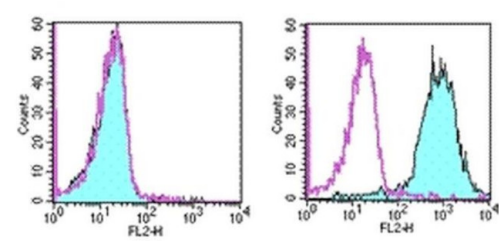
The ITEM-4 antibody has been show to have blocking function.

Applications Reported: The ITEM-4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The ITEM-4 antibody has been tested by flow cytometric analysis on human and mouse Fn14 transfected cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD266 (TWEAK Receptor) Monoclonal Antibody (ITEM-4), Biotin, eBioscience™



CD266 (TWEAK Receptor) Antibody (13-9018-82) in Flow
Staining of non-transfected (left) and human CD266 transfected (right) L5178Y cells with 0.25 µg of Mouse IgG2b Iso Control (Product # 13-4732-85) (open histogram) or 0.25 µg Anti-Human/Mouse CD266 (TWEAK Receptor) Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were analyzed.

2 References

Western Blot (1)

Atherosclerosis The CD163-expressing macrophages recognize and internalize TWEAK: potential consequences in atherosclerosis. Authors: Moreno JA,Muñoz-García B,Martín-Ventura JL,Madrigal-Matute J,Orbe J,Páramo JA,Ortega L,Egido J,Blanco-Colio LM	Year 2009
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Functional Assay (1)

Journal of immunology (Baltimore, Md. : 1950) Soluble and transmembrane TNF-like weak inducer of apoptosis differentially activate the classical and noncanonical NF-kappa B pathway. Authors: Roos C,Wicovsky A,Müller N,Salzmann S,Rosenthal T,Kalthoff H,Trauzold A,Seher A,Henkler F,Kneitz C,Wajant H	Year 2010
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