abcam

ab288666

Anti-TWEAKR/FN14 antibody [ITEM-4] - BSA and Azide free

Key facts

Isotype	IgG2b
Host species	Mouse
Storage buffer	pH: 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Carrier free	Yes
Clone number	ITEM-4
Purification technique	Affinity purification Protein A
Specificity	The mouse monoclonal antibody ITEM-4 recognizes an extracellular epitope of CD266 / TWEAK R, a TNFR superfamily receptor for CD255 / TWEAK, a TNF-like weak inducer of apoptosis.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1-4 g/mL

Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information TNFRSF12A

Function	Receptor for TNFSF12/TWEAK. Weak inducer of apoptosis in some cell types. Promotes angiogenesis and the proliferation of endothelial cells. May modulate cellular adhesion to matrix proteins.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The TWEAKR/FN14 known also as FN14 protein is a receptor primarily involved in cellular signaling. It is found on the cell surface and has a molecular weight of approximately 14 kDa. This receptor expresses in various tissues but its expression is especially high in the liver kidney and muscle tissues. Through its engagement with its ligand TWEAK (Tumor Necrosis Factor-Like Weak Inducer of Apoptosis) TWEAKR/FN14 participates in signal transduction processes that regulate cell survival and proliferation.
Biological function summary	TWEAKR/FN14 influences multiple cellular activities including inflammation proliferation and apoptosis. It does not solely function in isolation often interacting with other proteins in complex networks. In fact FN14 often couples its activity with downstream signaling proteins that impact pathways involved in tissue remodeling and repair. The receptor's ability to mediate these processes makes it a significant regulator of tissue response to damage.

Pathways	Signaling through TWEAKR/FN14 primarily involves the NF-κB and MAPK pathways. These signaling pathways are critical for mediating cellular responses to external stimuli such as stress or injury. The NF-κB pathway in particular plays a role in immune and inflammatory responses where FN14 through its interaction modulates these responses. Additionally proteins such as TRAF (TNF Receptor Associated Factor) are related to FN14 through these pathways contributing to its signaling functions.
Associated diseases and disorders	Dysregulation of TWEAKR/FN14 is linked to pathological conditions such as cancer and fibrosis. Overexpression of FN14 has been observed in several malignancies and its interaction with TWEAK has been implicated in tumorigenic processes. Meanwhile in fibrosis FN14 is associated with excessive tissue repair and scarring connected to the accumulation of extracellular matrix proteins. Altered expression levels and activity of FN14 with its partner proteins can contribute to the progression of these diseases highlighting its potential as a therapeutic target.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

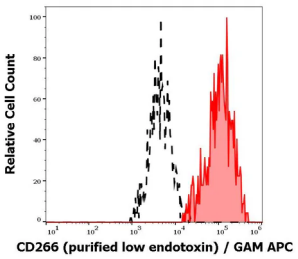
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

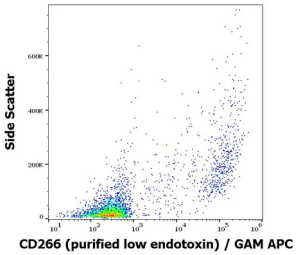
2 product images



Flow Cytometry - Anti-TWEAKR/FN14 antibody [ITEM-4] - BSA and Azide free (ab288666)

TWEAKR/FN14 Flow Cytometry staining using mouse Anti-TWEAKR/FN14 antibody

Separation of HUVEC cells stained using ab288666 (low endotoxin, concentration in sample 1 µg/ml, GAM APC, red-filled) from HUVEC cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).



Flow Cytometry - Anti-TWEAKR/FN14 antibody [ITEM-4] - BSA and Azide free (ab288666)

TWEAKR/FN14 Flow Cytometry staining using mouse Anti-TWEAKR/FN14 antibody

Flow cytometry surface staining pattern of HUVEC cells stained using ab288666 (low endotoxin, concentration in sample 1 µg/ml) GAM APC.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.