abcam

ab28104

Biotin Anti-CD43 antibody [MEM-59]

Anti-CD43 antibody [MEM-59] conjugated to Biotin - suitable for flow cytometry, IHC-P, IP, Western blot, and reacts with human samples. Clone [MEM-59] is a mouse monoclonal antibody cited in 2 publications.

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	Biotin
Storage buffer	pH: 8 Preservative: 0.097% Sodium azide
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing SPN protein. The exact immunogen used to generate this antibody is proprietary information. Database link P16150
Clone number	MEM-59
Purification technique	Size-exclusion chromatography
Specificity	The antibody recognizes neuraminidase sensitive epitope on CD43 antigen (Leukosialin), which is involved in lymphocyte activation.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purity >95% by SDS-PAGE.

Reactivity data

IP

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1-2 µg/mL
Notes	ab18434 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

WB

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information SPN

Function Predominant cell surface sialoprotein of leukocytes which regulates multiple T-cell functions, including T-cell activation, proliferation, differentiation, trafficking and migration. Positively regulates T-cell trafficking to lymph-nodes via its association with ERM proteins (EZR, RDX and MSN) (By similarity). Negatively regulates Th2 cell differentiation and predisposes the differentiation of T-cells towards a Th1 lineage commitment. Promotes the expression of IFN-gamma by T-cells during T-cell receptor (TCR) activation of naive cells and induces the expression of IFN-gamma

by CD4(+) T-cells and to a lesser extent by CD8(+) T-cells (PubMed:18036228). Plays a role in preparing T-cells for cytokine sensing and differentiation into effector cells by inducing the expression of cytokine receptors IFNGR and IL4R, promoting IFNGR and IL4R signaling and by mediating the clustering of IFNGR with TCR (PubMed:24328034). Acts as a major E-selectin ligand responsible for Th17 cell rolling on activated vasculature and recruitment during inflammation. Mediates Th17 cells, but not Th1 cells, adhesion to E-selectin. Acts as a T-cell counter-receptor for SIGLEC1 (By similarity). CD43 cytoplasmic tail. Protects cells from apoptotic signals, promoting cell survival.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Avoid freeze / thaw cycle

Notes

The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.

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

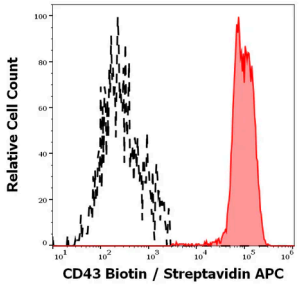
We do not recommend this combination. It is not covered by our product promise.

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.

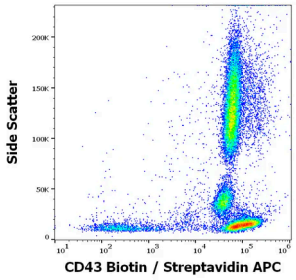
2 product images



Flow Cytometry - Biotin Anti-CD43 antibody [MEM-59] (ab28104)

CD43 Flow Cytometry staining of Human peripheral whole blood using mouse Anti-CD43 antibody

Separation of human CD43 positive lymphocytes (red-filled) from CD43 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using ab28104 (concentration in sample 0.56 µg/ml, streptavidin APC).



Flow Cytometry - Biotin Anti-CD43 antibody [MEM-59] (ab28104)

CD43 Flow Cytometry staining of Human peripheral whole blood using mouse Anti-CD43 antibody

Flow cytometry surface staining pattern of human peripheral whole blood stained using ab28104 (concentration in sample 0.56 µg/ml, streptavidin APC).

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