abcam

ab25673

FITC Anti-CD24 antibody [30-F1]

Anti-CD24 antibody [30-F1] conjugated to FITC - suitable for flow cytometry, and reacts with mouse samples. Clone [30-F1] is a rat monoclonal antibody cited in 32 publications.

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Key facts

Isotype	IgG2c
Host species	Rat
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Clone number	30-F1
Purification technique	Affinity purification
Light chain type	kappa

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	-

Notes	-

Target data

See full target information Cd24

Function	May have a pivotal role in cell differentiation of different cell types. May have a specific role in early thymocyte development. Signaling could be triggered by the binding of a lectin-like ligand to the CD24 carbohydrates, and transduced by the release of second messengers derived from the GPI-anchor. Modulates B-cell activation responses (By similarity). In association with SIGLEC10 may be involved in the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70 and HSP90 (PubMed:19264983). Plays a role in the control of autoimmunity (PubMed:20200274).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark

Supplementary info

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

Activity summary	CD24 also known as heat-stable antigen or CD24A is a glycosylphosphatidylinositol (GPI)-anchored membrane protein with a molecular mass of approximately 30-50 kDa. It is expressed on the surface of many cell types including B cells T cells neutrophils and epithelial cells. CD24 plays a role in cell adhesion and signaling processes impacting immune response and cancer progression. Its expression is often used as a marker in identification and classification procedures such as flow cytometry.
Biological function summary	CD24 functions like a molecular "switch" modulating signals sent between cells. It acts as a ligand for multiple receptors and participates in cellular communication especially influencing the immune system. Part of its biological role involves interaction within cellular complexes impacting immune modulation and inflammatory responses. CD24's location at the interface of cellular microenvironments makes it critical for cellular response adaptation to varied external stimuli.

Pathways	CD24 participates in both immune signaling and cancer-related pathways. It plays a significant role in the suppression of the immune response often interacting with proteins like Siglec-10 in these pathways. CD24's involvement in these pathways contributes to cell survival and proliferation particularly within cancer development. The protein’s interaction within specified signaling pathways allows it to influence downstream targets that regulate gene expression and cellular functions.
Associated diseases and disorders	CD24 has significant connections to cancer and inflammatory diseases. It is highly expressed in various cancers including breast and prostate cancer where it correlates with poor prognosis due to its role in apoptosis evasion and metastasis. CD24 interacts with proteins like HMGB1 and is implicated in inflammatory conditions where it modulates immune cell activity. Extensive research into CD24's involvement in these disorders may lead to targeted therapies including the development of anti-CD24 antibodies for therapeutic interventions.

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

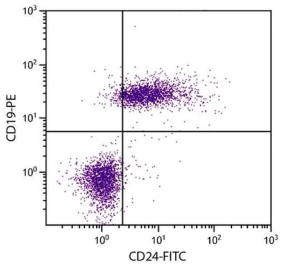
We do not recommend this combination. It is not covered by our product promise.

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

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1 product image



Flow Cytometry - FITC Anti-CD24 antibody [30-F1] (ab25673)

CD24 Flow Cytometry staining using rat Anti-CD24 antibody

C57BL/6 mouse splenocytes were costained using CD24-FITC and CD19-PE to distinguish cell subpopulations. Cells were incubated with Anti-CD24 antibody [30-F1] (FITC) (ab25673) at 1 µg/10^6 cells.

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