

Product datasheet

PE Anti-CD24 antibody [30-F1] ab25494

1 Image

Overview

Product name	PE Anti-CD24 antibody [30-F1]
Description	PE Rat monoclonal [30-F1] to CD24
Host species	Rat
Conjugation	PE. Ex: 488nm, Em: 575nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to CD24. Mouse thymus or spleen
General notes	

This antibody has been shown to be involved in the blockade of B cell lymphoblast aggregation. It has also been shown to be useful in studies of B cell ontology.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.3 Preservative: 0.09% Sodium azide Constituents: PBS, 16% Sucrose
	Also contains a stabilizing agent.
Purity	Affinity purified
Primary antibody notes	This antibody has been shown to be involved in the blockade of B cell lymphoblast aggregation. It has also been shown to be useful in studies of B cell ontology.

Clonality	Monoclonal
Clone number	30-F1
Isotype	IgG2c
Light chain type	kappa

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab25494 in the following tested applications.

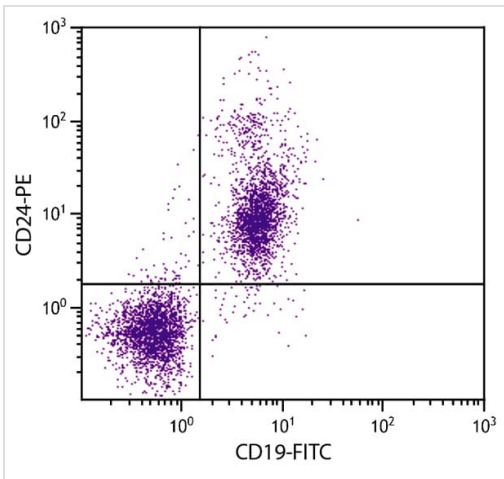
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 0.2µg for 10 ⁶ cells.

Target

Function	Modulates B-cell activation responses. 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. Promotes AG-dependent proliferation of B-cells, and prevents their terminal differentiation into antibody-forming cells.
Tissue specificity	B-cells. Expressed in a number of B-cell lines including P32/SH and Namalwa. Expressed in erythroleukemia cell and small cell lung carcinoma cell lines. Also expressed on the surface of T-cells.
Involvement in disease	Genetic variations in CD24 are associated with susceptibility to multiple sclerosis (MS) [MIM:126200]. A multifactorial, inflammatory, demyelinating disease of the central nervous system. Sclerotic lesions are characterized by perivascular infiltration of monocytes and lymphocytes and appear as indurated areas in pathologic specimens (sclerosis in plaques). The pathological mechanism is regarded as an autoimmune attack of the myelin sheat, mediated by both cellular and humoral immunity. Clinical manifestations include visual loss, extra-ocular movement disorders, paresthesias, loss of sensation, weakness, dysarthria, spasticity, ataxia and bladder dysfunction. Genetic and environmental factors influence susceptibility to the disease. Note=Polymorphisms in CD24 may act as a genetic modifier for susceptibility and progression of MS in some populations, perhaps by affecting the efficiency of CD24 expression on the cell surface.
Sequence similarities	Belongs to the CD24 family.
Post-translational modifications	Extensively O-glycosylated.
Cellular localization	Cell membrane.

Images



Flow cytometry analysis staining CD24 in mouse splenocytes using ab25494 at a dilution of 0.1 µg/10⁶ cells.

Flow Cytometry - PE Anti-CD24 antibody [30-F1]
(ab25494)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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