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Datasheet for ABIN967572 anti-CD24 antibody

2 Images

14 Publications



Overview

Quantity:	0.1 mg
Target:	CD24
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD24 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Cytotoxicity Test (CyTox), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Immunohistochemistry (Zinc-fixed Sections) (IHC (zinc))

Product Details

BD Pharmingen™
C57BL/10 Mouse Splenic T Lymphocytes
M1-69
lgG2b kappa
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to us for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
compounds in running water before discarding to avoid accumulation of potentially explosive
deposits in plumbing.
4. Sodium azide is a reversible inhibitor of oxidative metabolism, therefore, antibody

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Product Details

	preparations containing this preservative agent must not be used in cell cultures nor injected
	into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody
	or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the
	results of functional studies, we recommend the NA/LE™ (No Azide/Low Endotoxin) antibody
	format, if available, for in vitro and in vivo use.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity
	chromatography.

Target Details

Target:	CD24
Alternative Name:	CD24 (CD24 Products)
Background:	The M1/69 antibody reacts with CD24 (Heat-Stable Antigen, HSA or HsAg), a variably
	glycosylated GPI-anchored membrane protein found on erythrocytes, granulocytes, monocytes
	lymphocytes, and neurons. Hematopoietic stem cells of the embryonic yolk sac and fetal liver
	express CD24.5 Levels of expression of CD24 vary during differentiation of the T and B cell
	lineages. In the bone marrow, hematopoietic progenitors acquire CD24 expression upon
	commitment to the B-lymphocyte lineage. Immature B cells in the bone marrow and spleen of
	adult mice peripheral B lymphocytes express intermediate levels of CD24. The level of CD24
	expression has been reported to rise upon activation of splenic B cells with LPS, but not with
	CD154 (CD40 Ligand). The majority of thymocytes express high levels of CD24, while most
	mature thymic and peripheral T lymphocytes do not express CD24. In contrast, TCR-bearing
	thymocytes which emigrate to the spleen are CD24+. Dendritic cells of the thymus, spleen, liver
	and epidermal Langerhans cells have also been reported to express CD24. CD24 is not
	expressed by NK cells, as determined by staining with J11d mAb (ABIN967372). CD24 is
	involved in the costimulation of CD4+ T cells by B cells, it is a co-inducer of in vitro thymocyte
	maturation, and it is a ligand of CD62P (P-selectin). While the monoclonal antibodies 30-F1,
	M1/69, and J11d all react with CD24, they show subtle differences in the level of staining of
	different lymphocyte populations. When possible, investigators should continue to use the
	same monoclonal antibody as used in previous studies. This antibody is routinely tested by
	flow cytometric analysis.
	Synonyms: Heat Stable Antigen
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,

Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Activated T Cell Proliferation

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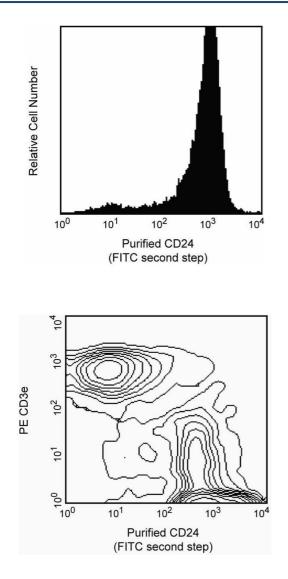
Comment:	Related Products: ABIN967372
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4° C.
Publications	
Product cited in:	Hunte, Capone, Zlotnik, Rennick, Moore: "Acquisition of CD24 expression by Lin-
	CD43+B220(low)ckit(hi) cells coincides with commitment to the B cell lineage." in: European
	journal of immunology, Vol. 28, Issue 11, pp. 3850-6, (1998) (PubMed).
	Cibotti, Punt, Dash, Sharrow, Singer: "Surface molecules that drive T cell development in vitro in
	the absence of thymic epithelium and in the absence of lineage-specific signals." in: Immunity,
	Vol. 6, Issue 3, pp. 245-55, (1997) (PubMed).
	Calaora, Chazal, Nielsen, Rougon, Moreau: "mCD24 expression in the developing mouse brain
	and in zones of secondary neurogenesis in the adult." in: Neuroscience , Vol. 73, Issue 2, pp.
	581-94, (1997) (PubMed).
	Aigner, Ruppert, Hubbe, Sammar, Sthoeger, Butcher, Vestweber, Altevogt: "Heat stable antigen
	(mouse CD24) supports myeloid cell binding to endothelial and platelet P-selectin." in:
	International immunology, Vol. 7, Issue 10, pp. 1557-65, (1996) (PubMed).
	Auerbach, Huang, Lu: "Hematopoietic stem cells in the mouse embryonic yolk sac." in: Stem
	cells (Dayton, Ohio), Vol. 14, Issue 3, pp. 269-80, (1996) (PubMed).

There are more publications referencing this product on: Product page

Images



Flow Cytometry

Image 1. Diffrerential expression of CD24 on thymocytes and peripheral T lymphocytes. BALB/c thymocytes were stained with purified mAb M1/69 followed by FITCconjugated anti-rat Ig kappa light chain mAb MRK-1 (first panel). BALB/c splenocytes were simultaneously stained with purified mAb M1/69 and PE-conjugated anti-mouse CD3e mAb 145-2C11 followed by mAb MRK-1 (second panel). Flow cytometry was performed on a BD FACScan[™] flow cytometry system.

Flow Cytometry

Image 2. BALB/c splenocytes were simultaneously stained with purified mAb M1/69 and PE-conjugated anti-mouse CD3e mAb 145-2C11 followed by mAb MRK-1 (second panel). Flow cytometry was performed on a BD FACScan[™] flow cytometry system.

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