

Datasheet for ABIN967372
anti-CD24 antibody

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Overview

Quantity:	0.5 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))

Product Details

Brand:	BD Pharmingen™
Immunogen:	C3H/HeJ mouse thymocytes
Clone:	J11d
Isotype:	IgM kappa
Characteristics:	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.
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 J11d antibody reacts with CD24 (Heat Stable Antigen, HSA or HsAg), a variably glycosylated membrane protein found on erythrocytes, granulocytes, monocytes, and lymphocytes. Levels of expression of CD24 vary during differentiation of the T and B cell lineages: Immature B cells in the bone marrow and spleen of adult mice express high levels of CD24, whereas mature peripheral B cells express intermediate levels of CD24. Similarly, the majority of thymocytes express high levels of CD24, while mature thymic and peripheral T cells do not express 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. CD24 is a ligand of CD62P (P-selectin). In vitro treatment of splenocytes with J11d antibody plus complement reduces primary IgM responses and proliferative responses to LPS. While the monoclonal antibodies 30-F1, M1/69 (ABIN967572), and J11d all react with CD24, they show subtle differences in the level of staining of different cell populations. When possible, investigators should continue to use the same monoclonal antibody as used in previous studies. Synonyms: Heat Stable Antigen
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Activated T Cell Proliferation

Application Details

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: Reichlin, Iizuka, Yokoyama: "Isolation of murine natural killer cells." in: **Current protocols in immunology / edited by John E. Coligan ... [et al.]**, Vol. Chapter 3, pp. Unit 3.22, (2008) ([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](#)).

Woo, Lu, Rao, Li, Subbotin, Starzl, Thomson: "Isolation, phenotype, and allostimulatory activity of mouse liver dendritic cells." in: **Transplantation**, Vol. 58, Issue 4, pp. 484-91, (1994) ([PubMed](#)).

Allman, Ferguson, Lentz, Cancro: "Peripheral B cell maturation. II. Heat-stable antigen(hi) splenic B cells are an immature developmental intermediate in the production of long-lived marrow-derived B cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 151, Issue 9, pp. 4431-44, (1993) ([PubMed](#)).

Wenger, Rochelle, Seldin, Köhler, Nielsen: "The heat stable antigen (mouse CD24) gene is differentially regulated but has a housekeeping promoter." in: **The Journal of biological chemistry**, Vol. 268, Issue 31, pp. 23345-52, (1993) ([PubMed](#)).

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