

Datasheet for ABIN967323

**anti-CD24 antibody****2** Images**3** Publications[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	CD24
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD24 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (IF)

## Product Details

Brand:	BD Pharmingen™
Immunogen:	Rat bone marrow cells
Clone:	HIS50
Isotype:	IgM kappa
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>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.</li></ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

Target:	CD24
Alternative Name:	CD24 ( <a href="#">CD24 Products</a> )
Background:	<p>The HIS50 antibody reacts with CD24 (Heat-Stable Antigen, HSA or HsAg), a variably glycosylated GPI-anchored membrane protein. In the rat, Cd24 mRNA is found in a variety of epithelia, neural tissue, lymph node germinal centers, and thymus. mAb HIS50 detects CD24 on most B-lineage cells in the bone marrow, on most sIgM[high] B lymphocytes in the blood and spleen, and on marginal-zone B cells in the spleen and lymph node. Variable levels of CD24 are detected on sIgM[dull] and follicular B lymphocytes. mAb HIS50 does not detect CD24 on rat thymocytes nor peripheral T lymphocytes, NK cells, or granulocytes. The HIS50 antibody cross-reacts with intracellular antigen(s) in human lymphocytes.</p> <p>Synonyms: Heat-Stable Antigen</p>
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Activated T Cell Proliferation</a>

## Application Details

Restrictions:	For Research Use only
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## 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.

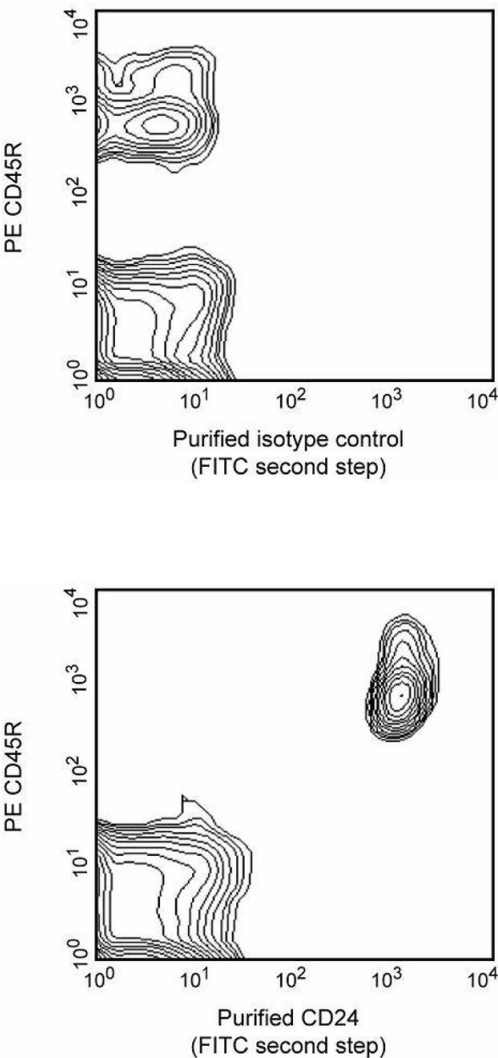
## Publications

Product cited in:	Hermans, Deenen, De Boer, Bo, Kroese, Opstelten: "Expression of HIS50 Ag: a rat homologue of mouse heat-stable antigen and human CD24 on B lymphoid cells in the rat." in: <b>Immunology</b> , Vol. 90, Issue 1, pp. 14-22, (1997) ( <a href="#">PubMed</a> ).
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Pearce, Ammerlaan, Opstelten: "Characterization of rat HSA/CD24 protein bearing the B lineage-restricted epitope recognized by MAb HIS50." in: **Hybridoma**, Vol. 15, Issue 1, pp. 33-42, (1997) ([PubMed](#)).

Akashi, Shirasawa, Hirokawa: "Gene expression of CD24 core polypeptide molecule in normal rat tissues and human tumor cell lines." in: **Virchows Archiv : an international journal of pathology**, Vol. 425, Issue 4, pp. 399-406, (1995) ([PubMed](#)).

Images



Flow Cytometry

**Image 1.** Purified isotype control (FITC second step)

Two-color analysis of CD24 expression on B-lineage cells in rat bone marrow. Cells flushed from Lewis femurs were stained with PE-conjugated anti-rat CD45R B-lymphocyte-specific mAb HIS24 and either purified isotype control mAb G155-228 (first panel) or purified mAb HIS50 (second panel), followed by FITC-conjugated anti-mouse IgM mAb II/41. Flow cytometry was performed on a BD FACSCalibur™ flow cytometry system.

**Image 2.** Purified CD24 (FITC second step)