



## CELL LAB Rat Anti-Mouse CD24/HSA

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732312	Purified (UNLB) Antibody	0.5 mg
732313	Fluorescein (FITC) Conjugate	0.5 mg
732314	Fluorescein (FITC) Conjugate	0.1 mg
732315	Phycoerythrin (PE) Conjugate	0.1 mg
734200	Biotin (BIOT) Conjugate	0.5 mg
734208	Phycoerythrin (PE) Conjugate	0.2 mg
734215	Spectral Red™ (SPRD) Conjugate	0.1 mg

### For Laboratory Use Only

#### DESCRIPTION

**Clone:** 30-F1  
**Isotype:** Rat IgG2 $\kappa$   
**Specificity:** Mouse CD24/heat stable antigen (HSA)

CD24 is expressed in B cells until their terminal differentiation into plasma cells.<sup>1</sup> It has been used widely as a marker to fractionate different B-lineage differentiation stages.<sup>9</sup> CD24 has been found on a variety of other hematopoietic and neural cell types, and is now classified as a co-stimulatory molecule.<sup>2-4</sup> The CD24/HSA molecule is composed mostly of carbohydrate, with a protein core of only 31-35 amino acids in the human<sup>1</sup> and 27 amino acids in the mouse.<sup>3</sup> The molecular mass is variable, ranging from 38-70 kDa.<sup>3</sup> CD24 is now included in the large group of phosphatidylinositol-anchored membrane proteins.<sup>1-4</sup> Studies with purified CD24 applied to latex beads have demonstrated a self-binding property, suggesting that the molecule is capable of promoting homotypic aggregation, binding and cell adhesion.<sup>3</sup> This is supported by earlier observations of the blockade of B cell lymphoblast aggregation with anti-CD24 monoclonal antibody.<sup>5</sup> Recent studies of murine CD24 have assigned a role for CD24/HSA as a ligand for P-selectin, a calcium-dependent lectin.<sup>6</sup>

#### APPLICATIONS

- Flow cytometry and cell sorting<sup>3,4,6-9</sup>
- Immunoprecipitation<sup>3</sup>

#### CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using flow cytometry.

#### WORKING DILUTIONS

<b>Flow Cytometry:</b>	FITC conjugate	$\leq 2 \mu\text{g}/10^6$ cells
	PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
	BIOT conjugate	$\leq 2 \mu\text{g}/10^6$ cells
	SPRD conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells

**Other Applications:** Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

## HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugates are supplied as 0.5 mg in 1.0 mL or as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub>.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>.
- The Spectral Red (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent.
- The phycoerythrin (PE) conjugates are supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

## STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

## TRADEMARKS

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## REFERENCES

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Beckman Coulter, Inc.  
4300 N. Harbor Blvd.  
Fullerton, CA 92835  
**[www.beckmancoulter.com](http://www.beckmancoulter.com)**

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