



## RAT ANTI-MOUSE CD24 MONOCLONAL ANTIBODY

<b>CATALOG NUMBER:</b>	CBL1315	<b>QUANTITY:</b>	0.5 mg
<b>LOT NUMBER:</b>		<b>CONCENTRATION:</b>	0.5 mg/mL
<b>CLONE NAME:</b>	30-F1	<b>HOST/ISOTYPE:</b>	Rat IgG <sub>2</sub> <sub>ack</sub>
<b>ALTERNATE NAMES:</b>	Heat Stable Antigen; HSA		
<b>BACKGROUND:</b>	CD24, also known as heat stable antigen (HSA) is anchored in the plasma membrane via phosphatidylinositol. This 35-50 kDa protein is expressed by thymocytes, erythrocytes, peripheral lymphocytes and myeloid lineage. Recent studies of murine CD24 have assigned a role for CD24 as a ligand for P-selectin (CD62P), a calcium-dependent lectin.		
<b>SPECIFICITY:</b>	Specific for mouse CD24 or Heat Stable Antigen (HSA). Expression of CD24 detected by this antibody has been shown to resolve stages of B lymphopoiesis in mouse bone marrow.		
<b>APPLICATIONS:</b>	Flow Cytometry: ≤ 2 µg per 10 <sup>6</sup> cells. Immunoprecipitation <i>Optimal working dilutions must be determined by end user.</i>		
<b>SPECIES REACTIVITY:</b>	Mouse. Reactivity with other species has not been determined.		
<b>PRESENTATION:</b>	The monoclonal was purified by affinity chromatography and is presented as a liquid in 100mM borate buffered saline, pH 8.2, containing no preservatives.		
<b>STORAGE/HANDLING:</b>	Maintain at 2-8°C in undiluted aliquots for up to 12 months from date of receipt.		
<b>REFERENCES:</b>	<p>Aigner, S. <i>et al.</i> (1995). Heat stable antigen (mouse CD24) supports myeloid cell binding to endothelial and platelet P-selectin. <i>International Immunology</i> <b>7</b>:1557-1565.</p> <p>Kariv, I. <i>et al.</i> (1994). Altered major histocompatibility complex restriction in the NK1.1+Ly-6Chi autoreactive CD4+ T cell subset from class II-deficient mice. <i>J. Exp. Med.</i> <b>180</b>:2419-2424.</p> <p>Hubbe, M. and Altevogt, P. (1994). Heat-stable antigen/CD24 on mouse T lymphocytes: evidence for a costimulatory function. <i>Eur. J. Immunol.</i> <b>24</b>:731.</p> <p>Liu, Y. <i>et al.</i> (1992). Co-stimulation of murine CD4 T cell growth: cooperation between B7 and heat-stable antigen. <i>Eur. J. Immunol.</i> <b>22</b>:2855-2859.</p> <p>Kadmon, G. <i>et al.</i> (1992). Nectadrin, the heat-stable antigen, is a cell adhesion molecule. <i>J. Cell Biol.</i> <b>118</b>:1245-1258.</p>		



Hardy, R. R. *et al.* (1991). Resolution and characterization of pro-B and pre-pro-B cell stages in normal mouse bone marrow. *J. Exp. Med* **173**:1213-1225.

Kay, R. *et al.* (1991). CD24, a signal transducer modulating B cell activation responses, is a very short peptide with a glycosyl phosphatidylinositol membrane anchor. *J. Immunol.* **147**:1412-1416.

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**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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