

## Monoclonal Antibody to CD24 - PE

<b>Alternate names:</b>	HSA, Signal transducer CD24, Small cell lung carcinoma cluster 4 antigen, X62 heat stable antigen
<b>Catalog No.:</b>	AM08069RP-S
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	CD24 (also known as heat stable antigen) is a phosphatidylinositol linked cell surface glycoprotein with a polypeptide core of 30 amino acids and high carbohydrate content. The apparent molecular mass of the two forms of CD24 purified from a mouse lymphoma cell line appear to be in the range of 40-60 and 23-30 kDa. CD24 is expressed at all stages of B cell development and on most thymocytes. The absence of expression from mature T cells is closely associated with their maturation from CD4+ CD8+ CD24+ thymocytes to either CD4+ CD8- CD24- or CD4- CD8+ CD24- T cells. CD24 is also present on mouse granulocytes, monocytes, Langerhans cells and erythrocytes. Its ligand is P selectin (CD62P). CD24 may play a role in regulation of B cell proliferation and differentiation, and it has been proposed that heat stable antigen promotes homotypic adhesion between B lymphocytes. CD24 is also a positive marker of pancreatic cancer.
<b>Uniprot ID:</b>	<a href="#">P24807</a>
<b>NCBI:</b>	<a href="#">NP_033976.1</a>
<b>GenID:</b>	<a href="#">12484</a>
<b>Host / Isotype:</b>	Rat / IgG2c
<b>Clone:</b>	30-F1
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. <b>Label:</b> PE – R-Phycoerythrin
<b>Applications:</b>	<b>Flow Cytometry</b> (< / = 0.2 µg/10e6 cells) and <b>Cell Sorting</b> . (Ref.3,4,7-10) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises CD24/Heat Stable Antigen (HSA). <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**  
Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
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- General Readings:**
1. Kay, R., P. M. Rosten and R. K. Humphries. 1991. *J. Immunol.* 147:1412-1416.
  2. Fischer, G. F., O. Majdic, S. Gadd, and W. Knapp. 1990. *J. Immunol.* 144:638.
  3. Hubbe, M. and P. Altevogt. 1994. *Eur. J. Immunol.* 1994. 24:731.
  4. Liu, Y., B. Jones, W. Brady, J. C. A. Janeway, and P. S. Linsley. 1992. *Eur. J. Immunol.* 22:2855.
  5. Shields, J. G., S. H. Smith and R. E. Callard. 1987. In *Leukocyte Typing III*. A. J. McMichael, et. al., eds., Oxford University Press, Oxford. P. 488.
  6. Kadmon, G., M. Eckert, M. Sammar, M. Schachner, and P. Altevogt. 1992. *J. Cell Biol.* 118:1245.
  7. Aigner, S., M. Ruppert, M. Hubbe, M. Sammar, Z. Stoecker, E. C. Butcher, D. Vestweber, and P. Altevogt. 1995. *International Immunology* 7:1557.
  8. Ledbetter, J. A., and L. A. Herzenberg. 1979. *Immunol. Rev.* 47: 63.
  9. Kariv, I., R. R. Hardy and K. Hayakawa. 1994. *J. Exp. Med.* 180:2419.
  10. Hardy, R. R., C. E. Carmack, S. A. Shinton, J. D. Kemp, and K. Hayakawa. 1991. *J. Exp. Med* 173:1213.

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