

Monoclonal Antibody to CD24 - FITC

Alternate names:	HSA, Signal transducer CD24, Small cell lung carcinoma cluster 4 antigen, X62 heat stable antigen
Catalog No.:	AM08069FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	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.
Uniprot ID:	P24807
NCBI:	NP_033976.1
GeneID:	12484
Host / Isotype:	Rat / IgG2c
Clone:	30-F1
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry (κ / λ = 2 μ g/10e6 cells) and Cell Sorting . (Ref.3,4,7-10) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises CD24/Heat Stable Antigen (HSA). Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. 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 or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

General Readings:

1. Kay, R., P. M. Rosten and R. K. Humphries. 1991. *J. Immunol.* 147:1412-1416.
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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. Stoege, 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.

Pictures:

Immunofluorescent Staining: BALB/c spleen cells were double-stained with Rat anti-Mouse CD24-FITC and Rat anti-Mouse CD19-PE (clone 6D5), following which small lymphocytes were gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: < / = 3 µg/10e6 cells.

