

Monoclonal Antibody to CD24 - FITC

Alternate names:	HSA, Signal transducer CD24, Small cell lung carcinoma cluster 4 antigen, X62 heat stable antigen
Catalog No.:	AM08034FC-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 that is expressed at all stages of B cell development and on most thymocytes. (Ref.1-3) 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. (Ref.4-6) Its ligand is P-selectin (CD62P). (Ref.7) 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. (Ref.1-3). The monoclonal antibody 91 can be used to inhibit B-cell differentiation. (Ref.8)
Uniprot ID:	P24807
NCBI:	NP_033976.1
GeneID:	12484
Host / Isotype:	Rat / IgG2a
Clone:	91
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: < / = 4 µg/10e6 cells. (Ref.8) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific to Heat Stable Antigen HSA (Mr 35-45 kDa). 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.
General Readings:	1. Bruce, J., F.W. Symington, T.J. McKearn, and J. Sprent. 1981. J. Immunol. 127:2496. 2. Alterman, L.A., I.N. Crispe, and C. Kinnon. 1990. Eur. J. Immunol. 20:1597. 3. Davidson, W.F., T.M. Chused, and H.C. Morse. 1981. Immunogenetics 13:421.

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



4. Rougon, G., L.A. Alterman, K. Dennis, X.J. Guo, and C. Kinnon. 1991. *Eur. J. Immunol.* 21:1397.
5. Wilson, A., L.M. Day, R. Scollay, and K. Shortman. 1984. *Immunol. Rev.* 82:79.
6. Shortman, K., A. Wilson, M. Egerton, M. Pearse, and R. Scollay. 1988. *Cell. Immunol.* 117:312.
7. Aigner, S., M. Ruppert, M. Hubbe, M. Sammar, Z. Stoeber, E. C. Butcher, D. Vestweber, and P. Altevogt. 1995. *International Immunology* 7:1557.
8. Kearney, J.F. Personal communication.

Pictures:

Immunofluorescent Staining: BALB/c splenocytes were double-stained with Rat anti-Mouse CD24-FITC and Hamster anti-Mouse CD3-RPE (Clone 145-2C11). Small lymphocytes were gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: 3 µg/10e6 cells.

