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Monoclonal Antibody to VSIG1 - FITC

Alternate names: Cell surface A33 antigen, GPA34, Glycoprotein A34, V-set and immunoglobulin domain-containing protein 1

Catalog No.: AM08142FC-N

Quantity: 0.5 mg

Concentration: 0.5 mg/ml

Background: ChT1, a member of the Ig superfamily with one V-like and one C2-like domain, is a T cell antigen that is expressed on the surface of embryonic thymocytes (day 10). In young chickens, about 90% of the thymocytes as well as a subpopulation of peripheral lymphocytes (which represent recent thymic emigrants) are ChT1 positive. (Ref.1-4) Expression in the periphery declines with age and, in correlation with partial thymectomy, indicates that ChT1 can be used as an accurate marker for studying thymic function. (Ref.3)

Uniprot ID: O9PWR4

NCBI: NP_001001745.1

GeneID: 414795

Host / Isotype: Mouse / IgG1

Clone: CT1

Immunogen: Chicken thymocytes.

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: ‹ / = 1 µg/10e6 cells.
Identification and enumeration of ChT1+ cells. (Ref.4)
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody is specific to ChT1 antigen (Mr 63/104 kDa) on Chicken thymocyte. (Ref.1)
CT1 can block T cell differentiation in vitro, in thymic organ cultures and in thymocyte precursors cultured on stromal cell monolayers. (Ref.4)
CT1 also recognizes quail cortical thymocytes. (Ref.1)
Species: Chicken.
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. Chen, C.L., H.T.C. Chanh, and M.D. Cooper. 1984. Chicken thymocyte-specific antigen identified by monoclonal antibodies: ontogeny,
tissue distribution and biochemical characterization. Eur. J. Immunol. 14:385.
2. Houssaint, E., E. Dietz, and F.V. Jotereau. 1985. Tissue distribution and ontogenic appearance of a chicken T lymphocyte differentiation marker. Eur. J. Immunol. 15:305-308.
3. Kong, F-K., C.L.H. Chen, and M.D. Cooper. 1998. Thymic function can be accurately monitored by the level of recent T cell emigrants in the circulation. Immunity: 8:97-104.
4. Katevuo, K., B.A., Imhof, R. Boyd., A. Chidgey, A. Bean, D. Dunon, T.W.F. Gobel, and O. Vainio. 1999. ChT1, an Ig superfamily molecule required for T cell differentiation. J. Immunol. 162:5685-5694.

Pictures:

Immunofluorescent Staining: Chicken thymocytes were double stained with Mouse anti-Chicken CD3-PE and Mouse anti-Chicken ChT1-FITC. Analysis was performed on a FACScan(TM) flow cytometer (BDB, San Jose, CA). Amount Used: ‹ / = 1 µg/10e6 cells.