

SCIENTIFIC BACKGROUND:

CD49f (also known as alpha-6 integrin) plays a role in cell adhesion and is expressed on a variety of cells. In epidermal and mammary epithelial cells, high expression of CD49f is associated with progenitor and stem cell activity. In the mouse mammary gland, CD49f is the single most important marker in selecting mammary stem and progenitor cells.

SPECIFICITY:

This antibody reacts with both human and mouse CD49f.

CLONE:

GoH3

IMMUNOGEN:

This monoclonal antibody was generated from rats immunized with BALB/C mouse mammary tumour cells. The fusion partner was SP2/0 mouse myeloma cells.

ISOTYPE:

IgG2a, K (rat)

FORMAT:

100 tests in 1.0 mL of an aqueous buffered solution containing 0.1% (w/v) sodium azide and 1% BSA. The antibody was purified from tissue hybridoma culture supernatant by ion exchange chromatography and conjugated with FITC using standard procedures.

STABILITY AND STORAGE:

Store at 2 - 8°C in the dark. Do not freeze.

APPLICATIONS AND DIRECTIONS FOR USE:

Centrifuge tube briefly before use to ensure recovery of entire contents. Titration may be required for optimal performance.

Flow Cytometry:

Recommended amount is 10 µL per 1×10^6 cells in a volume of 100 µL.

REFERENCES:

1. Stingl, J. et al., Nature., 439: 993, 2006.
2. Sonnenberg, A. et al., J. Biol. Chem., 262: 10376, 1987.
3. Hemler, M.E. et al., J. Biol. Chem., 263: 7660, 1988.
4. Sonnenberg, A. et al., J. Biol. Chem., 263: 14030, 1988.
5. Hemler, M.E. et al., J. Biol. Chem., 264: 6529, 1989.
6. Sonnenberg, A. et al., Nature., 336: 487, 1988.

**THIS REAGENT IS FOR RESEARCH USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**

Hazardous Ingredient: Sodium Azide. Avoid exposure to skin and eyes, ingestion, and contact with heat, acids and metals. Wash exposed skin with soap and water. Flush eyes with water. Dilute with running water before discharging into plumbing.

Product Information Sheet

ANTI-CD49f FITC

FITC-Conjugated Rat Monoclonal Antibody

Clone GoH3

Catalog #10111 100 tests

ANTIBODIES


Version 1.0.1

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