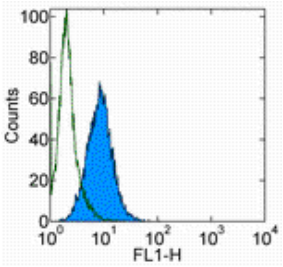
full spectrum cell analysis®
eBioscience®

Anti-Integrin beta 5 Functional Grade Purified

Catalog Number: 16-0497
Also Known As: Integrin b5, ITGB5
RUO: For Research Use Only



Staining of Chinese Hamster Ovary (CHO) cell line with 0.25 ug of Mouse IgG1 kappa Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 ug of Anti-Integrin beta 5 Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Total viable cells were used for analysis.

Product Information

Contents: Anti-Integrin beta 5 Functional Grade Purified
REF **Catalog Number:** 16-0497
Clone: KN52
Concentration: 1 mg/ml
Host/Isotype: Mouse IgG1, kappa
Handling Conditions: Use in sterile environment.
Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial

Description

The KN52 antibody reacts with human integrin beta 5, an approximately 100,000 Mr (reduced) and 95,000 Mr (nonreduced) a member of the integrin family. Only a single alpha chain, the alpha v subunit, associates with the integrin beta 5 to form the vitronectin receptor complex. Integrin alpha v/beta 5 complex also binds to the basic domain of Tat (he sequence RKKRRQRRR). The integrin beta 5 is found on carcinoma cell lines, hepatoma and fibroblast cell lines, and is absent from lymphoblastoid cells and platelets.

The KN52 monoclonal antibody has been shown to inhibit migration.

Applications Reported

This KN52 antibody has been reported for use in flow cytometric analysis. The KN52 antibody is also reported to have functional activity.

Applications Tested

This KN52 antibody has been tested by flow cytometric analysis of Chinese Hamster Ovary (CHO), A549 and normal human peripheral blood cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Sangaletti S, Di Carlo E, Gariboldi S, Miotti S, Cappetti B, Parenza M, Rumio C, Brekken RA, Chiodoni C, Colombo MP. Macrophage-derived SPARC bridges tumor cell-extracellular matrix interactions toward metastasis. Cancer Res. 2008 Nov 1;68(21):9050-9. (**KN52**, FA, PubMed)

Lai CF, Feng X, Nishimura R, Teitelbaum SL, Avioli LV, Ross FP, Cheng SL. Transforming growth factor-beta up-regulates the beta 5 integrin subunit expression via Sp1 and Smad signaling. J Biol Chem. 2000 Nov 17;275(46):36400-6.

Sugiyama M, Speight PM, Prime SS, Watt FM. Comparison of integrin expression and terminal differentiation capacity in cell lines derived from oral squamous cell carcinomas. Carcinogenesis. 1993 Oct;14(10):2171-6.

Related Products

11-4011 Anti-Mouse IgG FITC
14-4714 Mouse IgG1 K Isotype Control Purified
16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified

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