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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Integrin alpha 5 beta 1 [SG/19] Ab03564-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: SG/19

Alternative Name(s) of Target: CD29; ITGB1; FNRB; MDF2; MSK12; ITGA5:ITGB1; Integrin alpha V beta1; Integrin beta-1; Fibronectin receptor subunit beta; Glycoprotein IIa; GPIIA; VLA-4 subunit beta

UniProt Accession Number of Target Protein: P05556

Published Application(s): functional assay, IP, FC, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing BALB/c mice with Nalm-6 cells.

Specificity: This antibody binds human integrin alpha 5 beta 1 near the N-terminus. Epitope mapping of SG/19 revealed that Thr82 in the $\alpha 1$ subunit, located at the outer face of the boundary between the I-like and hybrid domains, was the key binding determinant for this antibody. Integrin alpha5 beta 1 is also known as fibronectin receptor and binds matrix macromolecules and proteinases and thereby stimulates angiogenesis. Integrin $\alpha 5 \beta 1$, is a member of the integrin family, is a heterodimer composed by two subunits, $\alpha 5$ (ITGA5/CD49e) and $\beta 1$ (ITGB1/CD29), and both are necessary for complete biological functions. The interaction of VLA-5 with fibronectin plays an important role in regulating inflammatory cytokine production by human articular chondrocytes (From the Cell Migration Gateway ITGA5 ITGB1

Application Notes: This antibody was capable of recognizing integrin alpha 5 beta 1 expressed on the surface of K562 cells via immunofluorescence staining. This antibody also precipitated molecules with weight of 110 and 140 kDa under nonreducing conditions from K562 cells and Ramos cells, and 130 kDa when reduced. These results were similar to the ones reported for integrin alpha 5 beta 1. The effect of this antibody on migration beneath stromal cells was investigated by inoculating Nalm-6 and BMS2 cells together with this antibody. It was seen that the presence of this antibody blocked the migration of Nalm-6 cells beneath stromal cells (PMID: 1400595).

Antibody First Published in: Miyake et al. Requirement for VLA-4 and VLA-5 integrins in lymphoma cells binding to and migration beneath stromal cells in culture. J Cell Biol. 1992 Nov;119(3):653-62.

[PMID:1400595](#)

Note on publication: This paper discloses a study on physical interactions between human lymphomas and murine bone marrow derived stromal cells using antibodies.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.