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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-beta 1 integrin [AIIB2] Standard Size Ab03450-1.1

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

Isotype and Format: Mouse IgG1, Kappa

Clone Number: AIIB2

Alternative Name(s) of Target: integrin beta 1; Integrin beta-1-binding protein 1; Integrin cytoplasmic domain-associated protein 1 (ICAP-1)

UniProt Accession Number of Target Protein: O14713

Published Application(s): FACS, in vivo, inhibition, IP, FC

Published Species Reactivity: Human, Mouse

Immunogen: The original antibody was isolated by immunizing a Lewis rat with JAR choriocarcinoma cells.

Specificity: The antibody specifically binds $\beta 1$ integrin extracellular domain.

Application Notes: The antibody immunoprecipitated the integrin subunits (Hall et al., 1990). This antibody was used for detection of $\beta 1$ integrin expressed on CHO cells by flow cytometry (Takada et al., 1993; PMID: 7688727). The original format of the antibody or its F(ab')₂ fragments applied to single cells were capable of down-modulating $\beta 1$ integrin signaling pathways (Wang et al., 1998; PMID: 9843973 and Weaver et al., 1997; PMID: 9105051). The antibody was used in immunofluorescence characterization of integrins in the HMT-3522 cells (Weaver et al., 1997; PMID: 9105051). The antibody inhibited tumor cell growth in several breast cancer cell lines (T4-2, MDA-MB-231, BT474, SKBR3, and MCF-7) and one nonmalignant cell line (S-1). Further, $\beta 1$ integrin inhibition resulted in a significant loss of cancer cells, associated with a decrease in proliferation and increase in apoptosis, and a global change in the composition of residual colonies (Park et al., 2010; PMID: 16452209). The antibody was found to reduce the frequency of solid tumor stem cells. The antibody inhibited the growth of colon tumors and reduced the percentage of CD44⁺ cells. Tumors treated in mice showed a decrease when treated with the antibody. The humanized version of the antibody was constructed, showing potential for therapeutic uses (WO2009009114A3).

Antibody First Published in: Hall et al. The alpha 1/beta 1 and alpha 6/beta 1 integrin heterodimers mediate cell attachment to distinct sites on laminin. J Cell Biol (1990) 110 (6): 2175-2184. [PMID:](#)

Note on publication: The original paper describes the generation and characterization of the antibody.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.