



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-beta 1 integrin [AIIB2] Ab03450-1.1-BT

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')<sub>2</sub> 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<sup>+</sup> 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:** 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.