Datasheet: MCA1949BT

**Description:** MOUSE ANTI HUMAN CD29:Biotin

**Specificity:** CD29

**Other names:** INTEGRIN BETA 1 CHAIN

**Format:** Biotin

**Product Type:** Monoclonal Antibody

**Clone:** 4B7R

**Isotype:** IgG1

**Quantity:** 25 µg

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.abdserotec.com/protocols](http://www.abdserotec.com/protocols).

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**Target Species**

Human

**Product Form**

Purified IgG conjugated to Biotin - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide

1% Bovine Serum Albumin

**Approx. Protein Concentrations**

IgG concentration 0.1 mg/ml

**Immunogen**

Occular melanoma cell line V+B2.

**External Database Links**

- **UniProt:**
  - [P05556](http://www.uniprot.org/uniprot/P05556) Related reagents

- **Entrez Gene:**
  - [3688](https://www.ncbi.nlm.nih.gov/gene/3688) ITGB1 Related reagents

**Synonyms**

FNRB, MDF2, MSK12
Mouse anti Human CD29 monoclonal antibody, clone 4B7R recognizes the human integrin beta 1 subunit, also known as CD29, a ~130kDa (red) 115kDa (non-red) single pass type I transmembrane glycoprotein expressed by most leucocytes and mesenchymal stem cells.

Integrin receptors are involved in the regulation of a variety of important biological functions, including embryonic development, wound repair, hemostasis and prevention of programmed cell death. They are also implicated in abnormal pathological states such as tumor directed angiogenesis, tumor cell growth, and metastasis. Surface expression of CD29 on human natural killer cells can be reduced by pretreatment with the glutathione-S-transferase inhibitor diethyl maleate (Horvath-Arcidiacono et al. 2003)

**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

**Immunohistology**

This product requires trypsin digestion pre-treatment of paraffin sections This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.

**References**


**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**

Related Products

**Recommended Secondary Antibodies**

STREPTAVIDIN (STAR119...) **APC**