Datasheet: MCA1189

Description: MOUSE ANTI HUMAN CD29
Specificity: CD29
Other names: INTEGRIN BETA 1 CHAIN
Format: Ig Fraction
Product Type: Monoclonal Antibody
Clone: JB1B
Isotype: IgG2a
Quantity: 0.2 mg

Product Details

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.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
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<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>1ug/10&lt;sup&gt;6&lt;/sup&gt;cells</td>
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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. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Pig, Cynomolgus monkey, Rhesus Monkey

Does not react with: Rat

N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Ig Fraction - liquid

Preparation

Ig fraction prepared by ammonium sulphate precipitation.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide

Approx. Protein Concentrations

Ig concentration 0.5 mg/ml
### Immunogen

Purified Human beta1 integrin

### External Database Links

**UniProt:**
- P05556
- Related reagents

**Entrez Gene:**
- 3688 ITGB1
- Related reagents

### Synonyms

FNRB, MDF2, MSK12

### Fusion Partners

Spleen cells from immunized BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.

### Specificity

**Mouse anti Human CD29 antibody, clone JB1B** recognizes human integrin beta1, also known as CD29, Fibronectin receptor subunit beta, Glycoprotein IIa or VLA-4 subunit beta. CD29 is a 798 amino acid ~130 kDa single pass type-1 transmembrane glycoprotein containing a single **VWFA** domain. Specificity for CD29 has been confirmed with integrin beta1 transfectants and by reciprocal preclearing of beta1 reactivity with anti-beta1 antibody.

Mouse anti Human CD29 antibody, clone JB1B has been successfully employed for the detection of porcine CD29 in formalin fixed, paraffin embedded material ([Papageorgiou et al., 2014](#)) and also to stimulate the adherence of several cell types ([Wilkins et al., 1996](#)).

The removal of azide is recommended prior to use in functional assays.

### References


### Storage

Store at +4°C or at -20°C if preferred.
This product should be stored undiluted. 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

### Regulatory
For research purposes only

## Related Products
### Recommended Secondary Antibodies
- **Goat Anti Mouse IgG (STAR77...)** [HRP](#)
- **Rabbit Anti Mouse IgG (STAR13...)** [HRP](#)
- **Goat Anti Mouse IgG (Fc) (STAR120...)** [FITC, HRP](#)
- **Rabbit Anti Mouse IgG (STAR8...)** [DyLight®800](#)
- **Goat Anti Mouse IgG (STAR76...)** [RPE](#)
- **Rabbit Anti Mouse IgG (STAR12...)** [RPE](#)
- **Goat Anti Mouse IgG IgA IgM (STAR87...)** [Alk. Phos., HRP](#)
- **Goat Anti Mouse IgG (H/L) (STAR117...)** [Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP](#)
- **Rabbit Anti Mouse IgG (STAR9...)** [FITC](#)
- **Human Anti Mouse IgG2a (HCA037...)** [FITC, HRP](#)
- **Goat Anti Mouse IgG (STAR70...)** [FITC](#)