Datasheet: MCA1317

Description: MOUSE ANTI HUMAN CD26

Specificity: CD26

Other names: DPP4

Format: Purified

Product Type: Monoclonal Antibody

Clone: M-A261

Isotype: IgG1

Quantity: 0.2 mg

Product Details

RRID: AB_321550

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.

<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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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>1/50 - 1/100</td>
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<td>Immunohistology - Frozen (1)</td>
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<td>Immunohistology - Paraffin</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</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.

(1) The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species: Human

Product Form: Purified IgG - 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

Carrier Free: Yes
**Approx. Protein Concentrations**
IgG concentration 1 mg/ml

**Immunogen**
Human T-cell leukemia cells (T-CLL)

**External Database Links**
- UniProt: P27487
- Entrez Gene: 1803
- Related reagents

**Synonyms**
ADCP2, CD26

**Fusion Partners**
Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line

**Specificity**
- **Mouse anti Human CD26 antibody, clone M-A261**, recognizes human dipeptidyl peptidase 4, also known as adenosine deaminase complexing protein 2, CD26, TP103, ADABP or DPP IV.
- CD26 is a 766 amino acid ~110 kDa single pass type II transmembrane glycoprotein expressed by activated T cells, B cells and macrophages. A soluble form of CD26 can be derived by cleavage of the membrane bound form between residues 38-39 (Uniprot: 27487).

CD26 acts as a functional receptor for the pathogenic Middle East respiratory syndrome coronavirus [MERS-CoV] (Rai et al. 2014), a severe and frequently fatal disease in humans and marmosets sharing identical CD26 sequence at the site of interaction with the MERS-CoV spike protein (Lu et al. 2013, Wang et al. 2013).

Mouse anti Human CD26 antibody, clone M-A261 has been used successfully for the immunohistochemical detection of CD26 on formalin fixed, paraffin embedded tissues and the demonstration of elevated CD26 expression in thyroid neoplasia (Kholová et al. 2003). Mouse anti Human CD26 antibody, clone M-A261 has also been used for the immunohistochemical detection of CD26 on cryostat sections using both immunoperoxidase and immunofluorescence staining in liver biopsies from NASH patients (Balaban et al. 2007).

**Flow Cytometry**
Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood

**Histology Positive Control Tissue**
Thymus

**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.

**Guarantee**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos., HRP**
Goat Anti Mouse IgG (STAR77...) **HRP**
Rabbit Anti Mouse IgG (STAR12...) **RPE**
Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**
Rabbit Anti Mouse IgG (STAR13...) **HRP**
Goat Anti Mouse IgG (STAR76...) **RPE**
Goat Anti Mouse IgG (STAR70...) **FITC**
Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**
Rabbit Anti Mouse IgG (STAR9...) **FITC**
Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP**

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL (MCA928)**

North & South America  Tel: +1 800 265 7376  Fax: +1 919 878 3751  Email: antibody_sales_us@bio-rad.com

Worldwide  Tel: +44 (0)1865 852 700  Fax: +44 (0)1865 852 739  Email: antibody_sales_uk@bio-rad.com

Europe  Tel: +49 (0) 89 8090 95 21  Fax: +49 (0) 89 8090 95 50  Email: antibody_sales_de@bio-rad.com

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