# Datasheet: MCA1317GA

## Product Details

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN CD26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>CD26</td>
</tr>
<tr>
<td>Other names:</td>
<td>DPP4</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>M-A261</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

## 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>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>-</td>
<td></td>
<td></td>
<td>1/50 - 1/100</td>
</tr>
<tr>
<td>Immunohistology - Frozen (1)</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
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<td></td>
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</tr>
<tr>
<td>ELISA</td>
<td>-</td>
<td></td>
<td></td>
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<tr>
<td>Immunoprecipitation</td>
<td>-</td>
<td></td>
<td></td>
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<tr>
<td>Western Blotting</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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  Related reagents

Entrez Gene: 1803 DPP4  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 10^6 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**

Material Safety Datasheet documentation #10040 available at:


**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...) *DyLight680*
- 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., DyLight548, DyLight680, DyLight800, 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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