### Datasheet: MCA1317F

**Description:** MOUSE ANTI HUMAN CD26:FITC

**Specificity:** CD26

**Other names:** DPP4

**Format:** FITC

**Product Type:** Monoclonal Antibody

**Clone:** M-A261

**Isotype:** IgG1

**Quantity:** 0.1 mg

### Product Details

**RRID** AB_321551

**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>
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<td>Neat</td>
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Where this product 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 product for use in their own system using appropriate negative/positive controls.

**Target Species** Human

**Product Form** Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

**Max Ex/Em**

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tbody>
<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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**Preparation** Purified IgG prepared by affinity chromatography on Protein A 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** Human T-cell leukemia cells (T-CLL)

**External Database Links** UniProt:
Related reagents

Entrez Gene:

1803 DPP4

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] ([Raj 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

References

11. Akilov, O.E. *et al.* (2012) Resistance of Sézary cells to TNF-α-induced apoptosis is mediated in...

<table>
<thead>
<tr>
<th>Storage</th>
<th>Store at +4°C or at -20°C if preferred.</th>
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<tbody>
<tr>
<td></td>
<td>This product should be stored undiluted.</td>
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<tr>
<td></td>
<td>Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.</td>
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<tr>
<td></td>
<td>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</td>
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<tr>
<th>Guarantee</th>
<th>18 months from date of despatch</th>
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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:

<table>
<thead>
<tr>
<th>Regulatory</th>
<th>For research purposes only</th>
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**Related Products**

**Recommended Negative Controls**

**Recommended Useful Reagents**

**HUMAN SEROBLOCK (BUF070A)**
**HUMAN SEROBLOCK (BUF070B)**