

## CD26 Monoclonal Antibody (236.3)

Catalog Number **MA2607**

Product data sheet

Details	
Size	500 ug
Host/Isotope	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	236.3
Immunogen	Rat 110-120 kD single chain glycoprotein Depeptidyl Peptidase IV (CD26).
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5-1.5 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	no preservative
Storage Conditions	-20°C

Species Reactivity	
Species reactivity	Human, Rat
Published species	Not Applicable
Tested Applications	
Flow Cytometry (Flow)	Assay Dependent
Immunocytochemistry (ICC)	1:20-1:200
Immunofluorescence (IF)	1:20-1:200
Immunohistochemistry (IHC)	Assay Dependent
Immunoprecipitation (IP)	Assay Dependent
Published Applications	
Miscellaneous PubMed (MISC)	See 1 publications below

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

### Product specific information

MA2607 targets CD26 in FACS, IHC, IF/ICC and IP applications and shows reactivity with Human and Rat samples. The MA2607 immunogen is rat 110-120 kD single chain glycoprotein Depeptidyl Peptidase IV (CD26). MA2607 detects CD26 which has a predicted molecular weight of approximately 88 kDa. This product is a Low Endotoxin formulation.

### Background/Target Information

CD26 (dipeptidyl peptidase IV, DPP IV), adenosine deaminase (ADA) binding protein) is a homodimeric atypical serine protease belonging to the prolyl oligopeptidase family. CD26 is expressed on lymphocyte cells and is upregulated during T-cell activation. CD26 is also expressed on activated B cells and natural killer cells and abundantly on epithelia. CD26 is implicated in a variety of biological functions including T-cell activation, cell adhesion with extracellular matrix such as fibronectin or collagens, and in HIV infection. Cross-linking of CD26 using this antibody dramatically enhances the anti CD3-induced IL - 2 production. CD26 identical to adenosine deaminase complexing protein-2, and to the T-cell activation antigen CD26. Further, CD26 is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. Alterations in CD26 peptidase activity are characteristic of malignant transformation, and the enzymatic activity increases dramatically with tumor grade and severity. CD26 is expressed in various blood cell types, but also in cells that are histogenetically related to activated fibroblasts. Alterations in CD26 density have been reported on circulating monocytes and CD4+ T cells during rheumatoid arthritis and systemic lupus erythematosus.

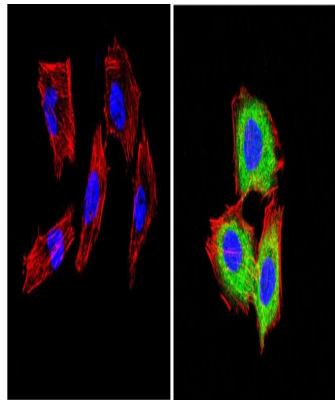
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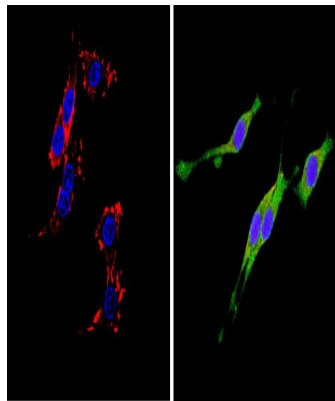
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## Product Images For CD26 Monoclonal Antibody (236.3)



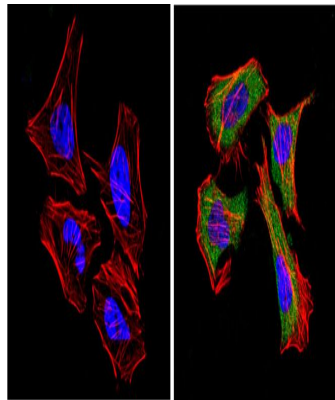
### CD26 Antibody (MA2607) in IF

Immunofluorescent analysis of CD26 (green) showing positive staining in the cytoplasm of H-4-II-E cells (right) compared with a negative control in the absence of primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes, blocked with 3% BSA-PBS for 30 minutes at room temperature and probed with a CD26 monoclonal antibody (Product # MA2607) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 488-conjugated goat-anti-mouse IgG (H+L) secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with DAPI for 5-10 minutes in the dark. Images were taken at a magnification of 60x.



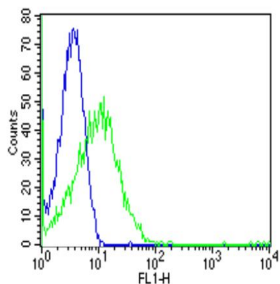
### CD26 Antibody (MA2607) in IF

Immunofluorescent analysis of CD26 (green) showing positive staining in the cytoplasm of PC12 cells (right) compared with a negative control in the absence of primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes, blocked with 3% BSA-PBS for 30 minutes at room temperature and probed with a CD26 monoclonal antibody (Product # MA2607) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 488-conjugated goat-anti-mouse IgG (H+L) secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with DAPI for 5-10 minutes in the dark. Images were taken at a magnification of 60x.



### CD26 Antibody (MA2607) in IF

Immunofluorescent analysis of CD26 (green) showing positive staining in the cytoplasm of HeLa cells (right) compared with a negative control in the absence of primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes, blocked with 3% BSA-PBS for 30 minutes at room temperature and probed with a CD26 monoclonal antibody (Product # MA2607) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 488-conjugated goat-anti-mouse IgG (H+L) secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with DAPI for 5-10 minutes in the dark. Images were taken at a magnification of 60x.



Cell: H-4-II-E

Concentration: 1 µg/test (100 µl)

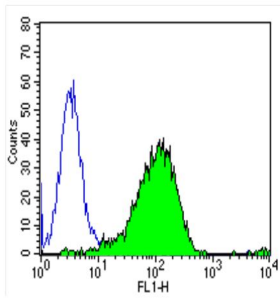
### CD26 Antibody (MA2607) in Flow

Flow cytometry analysis of CD26 in H-4-II-E cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of  $1-5 \times 10^6$  cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a CD26 monoclonal antibody (Product # MA2607) at a dilution of 1 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a DyLight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.

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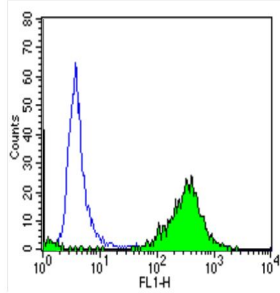


Cell: HeLa

Concentration: 2µg/test (100µl)

#### CD26 Antibody (MA2607) in Flow

Flow cytometry analysis of CD26 in HeLa cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of  $1-5 \times 10^6$  cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a CD26 monoclonal antibody (Product # MA2607) at a dilution of 2 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.



Cell: PC12

Concentration: 2µg/test (100µl)

#### CD26 Antibody (MA2607) in Flow

Flow cytometry analysis of CD26 in PC12 cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of  $1-5 \times 10^6$  cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a CD26 monoclonal antibody (Product # MA2607) at a dilution of 2 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.

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## PubMed References For CD26 Monoclonal Antibody (236.3)

### 1 Miscellaneous PubMed References

Species / Dilution	Summary
	MA2607 was used in immunohistochemistry and immunoprecipitation to investigate the expression of dipeptidyl peptidase IV at the RNA and protein levels in rats
Not Applicable / Not Cited	<p>The Biochemical journal ( 1991; 273 ( Pt 3): 497)</p> <p><b>"A Fischer rat substrain deficient in dipeptidyl peptidase IV activity makes normal steady-state RNA levels and an altered protein. Use as a liver-cell transplantation model."</b></p> <p>Author(s):Thompson NL,Hixson DC,Callanan H,Panzica M,Flanagan D,Faris RA,Hong WJ,Hartel-Schenk S,Doyle D</p> <p>PubMed Article URL:<a href="http://dx.doi.org/null">http://dx.doi.org/null</a></p>

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