

SM1085PT**Monoclonal Antibody to CD26 / DPP4 - Purified**

Alternate names:	ADABP, ADCP2, Adenosine deaminase complexing protein 2, DPP IV, Dipeptidyl peptidase 4, Dipeptidyl peptidase IV, T-cell activation antigen CD26, TP103
Quantity:	25 µg
Concentration:	1.0 mg/ml
Background:	CD26 is a 110 kD molecule expressed by activated T cells, B cells and macrophages. This molecule is also known as dipeptidylpeptidase IV.
Uniprot ID:	P27487
NCBI:	NP_001926.2
GeneID:	1803
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	M-A261
Immunogen:	Human T-cell leukaemia cells (T-CLL). Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line.
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS containing 0.09% Sodium Azide as preservative
Applications:	Flow Cytometry: 1/50-1/100. Use 10 µl of the suggested working dilution to label 10e6 cells or 100 µl whole blood. Immunoprecipitation. Immunohistochemistry on Frozen Sections: The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. We recommend the use of acetone fixation for frozen sections. Recommended positive control tissue: Thymus. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the CD26 cell surface antigen. Species: Human. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Berg LP, James MJ, Alvarez-Iglesias M, Glennie S, Lechler RI, Marelli-Berg FM. Functional consequences of noncognate interactions between CD4+ memory T lymphocytes and the endothelium. J Immunol. 2002 Apr 1;168(7):3227-34. PubMed PMID: 11907076. 2. Post S, Smits AM, van den Broek AJ, Sluijter JP, Hoefler IE, Janssen BJ, et al. Impaired

- recruitment of HHT-1 mononuclear cells to the ischaemic heart is due to an altered CXCR4/CD26 balance. *Cardiovasc Res.* 2010 Feb 1;85(3):494-502. doi: 10.1093/cvr/cvp313. Epub 2009 Sep 17. PubMed PMID: 19762327.
3. Krijnen PA, Hahn NE, Kholová I, Baylan U, Sipkens JA, van Alphen FP, et al. Loss of DPP4 activity is related to a prothrombogenic status of endothelial cells: implications for the coronary microvasculature of myocardial infarction patients. *Basic Res Cardiol.* 2012 Jan;107(1):233. doi: 10.1007/s00395-011-0233-5. Epub 2011 Dec 14. PubMed PMID: 22167343.
4. Kholová I, Ludvíková M, Ryska A, Hanzelková Z, Cap J, Pecen L, et al. Immunohistochemical detection of dipeptidyl peptidase IV (CD 26) in thyroid neoplasia using biotinylated tyramine amplification. *Neoplasma.* 2003;50(3):159-64. PubMed PMID: 12937847.
5. Lutz MS, Burk RD. Primary cilium formation requires von hippel-lindau gene function in renal-derived cells. *Cancer Res.* 2006 Jul 15;66(14):6903-7. PubMed PMID: 16849532.
6. James MJ, Belaramani L, Prodromidou K, Datta A, Nourshargh S, Lombardi G, et al. Anergic T cells exert antigen-independent inhibition of cell-cell interactions via chemokine metabolism. *Blood.* 2003 Sep 15;102(6):2173-9. Epub 2003 May 29. PubMed PMID: 12775572.
7. Snooks MJ, Bhat P, Mackenzie J, Counihan NA, Vaughan N, Anderson DA. Vectorial entry and release of hepatitis A virus in polarized human hepatocytes. *J Virol.* 2008 Sep;82(17):8733-42. doi: 10.1128/JVI.00219-08. Epub 2008 Jun 25. PubMed PMID: 18579610.

Pictures:

SM1085PS staining of human peripheral blood lymphocytes

