

DPPIV (Human) Antibody

ALTERNATE NAMES:	DPP4, DPP-4, ADABP, ADCP2, ADCP-2, CD26, CD-26, DPPIV, DPPIV, TP103, TP-103
CATALOG #:	6693-50
AMOUNT:	50 µg
HOST/ISOTYPE:	Goat IgG
IMMUNOGEN:	Mouse myeloma cell line NS0-derived recombinant human DPPIV/CD26
MOLECULAR WEIGHT:	~110 kDa
PURIFICATION:	Antigen affinity purified
FORM:	Liquid
FORMULATION:	0.2 mg/ml in PBS
SPECIES REACTIVITY:	Human
STORAGE CONDITIONS:	Stable at -20 to -80°C. Avoid multiple freeze thaw cycles.

DESCRIPTION: Dipeptidyl peptidase-IV (DPPIV), also known as adenosine deaminase complexing protein 2, DPPIV or CD26 is antigenic enzyme expressed on the surface of most cell types and is associated with immune regulation, signal transduction and apoptosis. It is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. The substrates of DPPIV are proline (or alanine)-containing peptides and include growth factors, chemokines, neuropeptides, and vasoactive peptides. DPPIV plays a major role in glucose metabolism. It is responsible for the degradation of incretins such as GLP-1. DPPIV plays an important role in tumor biology, and is useful as a marker for various cancers, with its levels either on the cell surface or in the serum increased in some neoplasms and decreased in others. DPPIV also binds the enzyme adenosine deaminase specifically and with high affinity. The significance of this interaction has yet to be established.

APPLICATION:	WB: 0.2 µg/ml, ICC: 5-15 µg/ml, IHC: 5-15 µg/ml
SPECIFICITY:	In direct ELISAs less than 5% cross reactivity with mouse DPPIV/CD26 is observed.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

FOR RESEARCH USE ONLY! Not to be used on humans.

Fig. 1

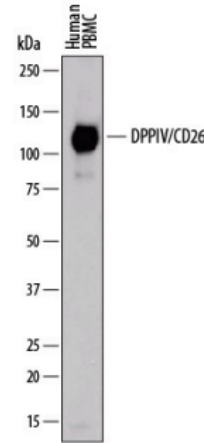


Fig. 1: Detection of Human DPPIV/CD26 by Western Blot. Western blot shows lysates of human peripheral blood mononuclear cells (PBMC). PVDF membrane was probed with 0.2 µg/mL of Goat Anti-Human DPPIV/CD26 Antibody followed by HRP-conjugated Anti-Goat IgG Secondary Antibody. A specific band was detected for DPPIV/CD26 at approximately 110 kDa (as indicated).

Fig. 2

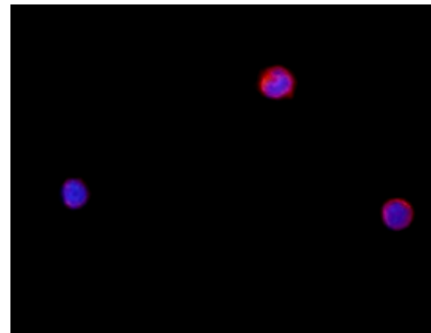


Fig. 2: DPPIV/CD26 in Human PBMCs. DPPIV/CD26 was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Goat Anti-Human DPPIV/CD26 Antibody at 10 µg/mL for 3 hours at RT. Cells were stained using the Northern-Lights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow) and counter-stained with DAPI (blue).

RELATED PRODUCTS:

- DPPIV (mouse) Antibody (**Cat. No. 6694-50**)
- Dipeptidyl Peptidase IV, Human Placenta (**Cat. No. 4709-10**)
- Dipeptidylpeptidase IV, human recombinant (**Cat. No. 4710-10, -50, -1000**)
- DPP4 Activity Fluorometric Assay Kit (**Cat. No. K779-00**)
- DPP4 Inhibitor Screening Kit (Fluorometric) (**Cat. No. K780-100**)
- DPP IV/CD26 (human) ELISA Kit (**Cat. No. K4801-100**)
- DPP IV/CD26 (mouse) ELISA Kit (**Cat. No. K4770-100**)
- DPP IV Inhibitor, K 579 (**Cat. No. 1963-1, -5**)
- DPP IV Inhibitor, NVP DPP 728 (**Cat. No. 1964-1, -5**)
- DPPIV Inhibitor, P32/98 (**Cat. No. 2571-1, -5**)

