

CD26 Rabbit mAb

Catalog # AP76429

Product Information

ApplicationWBPrimary AccessionP27487ReactivityHumanHostRabbit

Clonality Monoclonal Antibody

Calculated MW 88279

Additional Information

Gene ID 1803

Other Names DPP4

Dilution WB~~1/500-1/1000

Format 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and

0.05% BSA.

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

Protein Information

Name DPP4 (<u>HGNC:3009</u>)

Synonyms ADCP2, CD26

Function Cell surface glycoprotein receptor involved in the costimulatory signal

essential for T-cell receptor (TCR)-mediated T- cell activation (PubMed: 10900005, PubMed: 10951221, PubMed: 11772392,

PubMed: 17287217). Acts as a positive regulator of T-cell coactivation, by binding at least ADA, CAV1, IGF2R, and PTPRC (PubMed: 10900005,

PubMed:<u>10951221</u>, PubMed:<u>11772392</u>, PubMed:<u>14691230</u>). Its binding to CAV1 and CARD11 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner (PubMed:<u>17287217</u>). Its interaction

with ADA also regulates lymphocyte-epithelial cell adhesion

(PubMed:<u>11772392</u>). In association with FAP is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM (PubMed:<u>10593948</u>, PubMed:<u>16651416</u>). May be involved in the promotion of lymphatic endothelial cells adhesion, migration and tube formation (PubMed:<u>18708048</u>). When overexpressed, enhanced cell proliferation, a process inhibited by GPC3 (PubMed:<u>17549790</u>). Also acts as a serine exopeptidase with a dipeptidyl peptidase activity that

regulates various physiological processes by cleaving peptides in the circulation, including many chemokines, mitogenic growth factors, neuropeptides and peptide hormones such as brain natriuretic peptide 32 (PubMed:10570924, PubMed:16254193). Removes N-terminal dipeptides sequentially from polypeptides having unsubstituted N-termini provided that the penultimate residue is proline (PubMed:10593948).

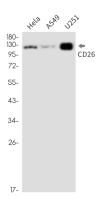
Cellular Location

[Dipeptidyl peptidase 4 soluble form]: Secreted Note=Detected in the serum and the seminal fluid

Tissue Location

Expressed specifically in lymphatic vessels but not in blood vessels in the skin, small intestine, esophagus, ovary, breast and prostate glands. Not detected in lymphatic vessels in the lung, kidney, uterus, liver and stomach (at protein level). Expressed in the poorly differentiated crypt cells of the small intestine as well as in the mature villous cells. Expressed at very low levels in the colon

Images



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