

ARG42465 anti-CD26 / DPP4 antibody [H194-112] (PE)

Package: 100 µg
Store at: 4°C

Summary

Product Description	PE-conjugated Rat Monoclonal antibody [H194-112] recognizes CD26 / DPP4
Tested Reactivity	Ms
Tested Application	FACS
Specificity	The rat monoclonal antibody H194-112 recognizes an extracellular epitope of CD26, a 110 kDa type II membrane glycoprotein, which is a peptidase expressed on mature thymocytes, T cells (especially activated), B cells, NK cells and macrophages.
Host	Rat
Clonality	Monoclonal
Clone	H194-112
Isotype	IgG2a, kappa
Target Name	CD26 / DPP4
Species	Mouse
Immunogen	BALB/c thymocytes.
Conjugation	PE
Alternate Names	T-cell activation antigen CD26; ADCP2; ADCP-2; DPP IV; Adenosine deaminase complexing protein 2; CD26; EC 3.4.14.5; ADABP; Dipeptidyl peptidase IV soluble form; Dipeptidyl peptidase IV; Dipeptidyl peptidase 4; Dipeptidyl peptidase IV membrane form; TP103; DPPIV; CD antigen CD26

Application Instructions

Application table	Application	Dilution
	FACS	1 - 5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

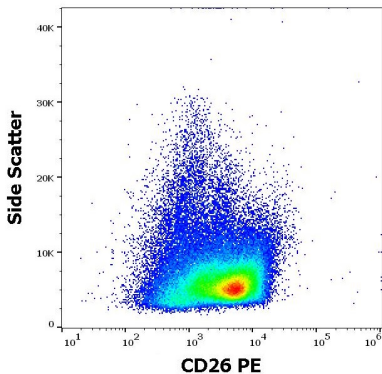
Properties

Form	Liquid
Purification	Purified
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Concentration	0.5 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

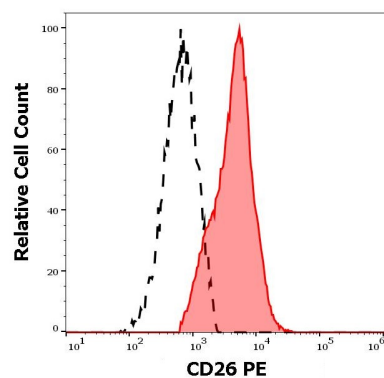
Gene Symbol	DPP4
Gene Full Name	dipeptidyl-peptidase 4
Background	The protein encoded by this gene is identical to adenosine deaminase complexing protein-2, and to the T-cell activation antigen CD26. It is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. [provided by RefSeq, Jul 2008]
Function	Cell surface glycoprotein receptor involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Acts as a positive regulator of T-cell coactivation, by binding at least ADA, CAV1, IGF2R, and PTPRC. Its binding to CAV1 and CARD11 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Its interaction with ADA also regulates lymphocyte-epithelial cell adhesion. 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. May be involved in the promotion of lymphatic endothelial cells adhesion, migration and tube formation. When overexpressed, enhanced cell proliferation, a process inhibited by GPC3. Acts also 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. Removes N-terminal dipeptides sequentially from polypeptides having unsubstituted N-termini provided that the penultimate residue is proline. [UniProt]
Calculated Mw	88 kDa
PTM	<p>The soluble form (Dipeptidyl peptidase 4 soluble form also named SDPP) derives from the membrane form (Dipeptidyl peptidase 4 membrane form also named MDPP) by proteolytic processing.</p> <p>N- and O-Glycosylated.</p> <p>Phosphorylated. Mannose 6-phosphate residues in the carbohydrate moiety are necessary for interaction with IGF2R in activated T-cells. Mannose 6-phosphorylation is induced during T-cell activation. [UniProt]</p>
Cellular Localization	Dipeptidyl peptidase 4 soluble form: Secreted. Cell membrane. Apical cell membrane. Cell projection, invadopodium membrane. Cell projection, lamellipodium membrane. Cell junction. Membrane raft. [UniProt]

Images



ARG42465 anti-CD26 / DPP4 antibody [H194-112] (PE) FACS image

Flow Cytometry: Murine splenocyte suspension stained with ARG42465 anti-CD26 / DPP4 antibody [H194-112] (PE) at 15 µg/ml dilution.



ARG42465 anti-CD26 / DPP4 antibody [H194-112] (PE) FACS image

Flow Cytometry: Separation of murine CD26 positive cells (red-filled) from murine CD26 negative cells (black-dashed). Murine splenocyte suspension stained with ARG42465 anti-CD26 / DPP4 antibody [H194-112] (PE) at 15 $\mu\text{g/ml}$ dilution.