abcam

Product datasheet

Anti-DPP4 antibody [OX-61] (FITC) ab112227

3 References　1 图像

概述

产品名称	Anti-DPP4抗体[OX-61] (FITC)
描述	小鼠单克隆抗体[OX-61] to DPP4 (FITC)
宿主	Mouse
偶联物	FITC. Ex: 493nm, Em: 528nm
经测试应用	**适用于:** Flow Cyt
种属反应性	**与反应:** Rat
免疫原	Thoracic duct lymphocytes from a mesenteric lymphodectomised Rat.
阳性对照	Rat Strain: WistAr (Thymus, Spleen)

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	Preservative: 0.02% Sodium azide Constituents: 99% PBS, 0.5% BSA
纯度	IgG fraction
克隆	单克隆
克隆编号	OX-61
骨髓瘤	P3-NS1/1-Ag4-1
同种型	IgG2a

应用

The Abpromise guarantee　Abpromise™承诺保证使用ab112227于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明

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Flow Cyt		Use 0.5µg for 10^6 cells. **ab91362** - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

靶标

功能

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.

组织特异性

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.

序列相似性

Belongs to the peptidase S9B family. DPPIV subfamily.

结构域

The extracellular cysteine-rich region is necessary for association with collagen, dimer formation and optimal dipeptidyl peptidase activity.

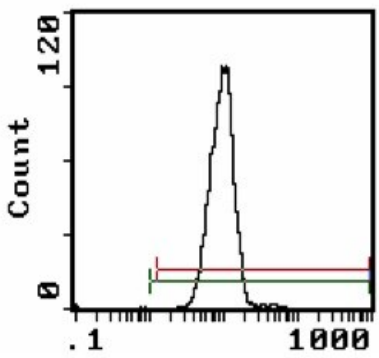
翻译后修饰

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.
N- and O-Glycosylated.
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.

细胞定位

Cell membrane. Apical cell membrane. Cell projection > invadopodium membrane. Cell projection > lamellipodium membrane. Cell junction. Membrane raft. Translocated to the apical membrane through the concerted action of N- and O-Glycans and its association with lipid microdomains containing cholesterol and sphingolipids. Redistributed to membrane rafts in T-cell in a interleukin-12-dependent activation. Its interaction with CAV1 is necessary for its translocation to membrane rafts. Colocalized with PTPRC in membrane rafts. Colocalized with FAP in invadopodia and lamellipodia of migratory activated endothelial cells in collagenous matrix. Colocalized with FAP on endothelial cells of capillary-like microvessels but not large vessels within invasive breast ductal carcinoma. Colocalized with ADA at the cell junction in lymphocyte-epithelial cell adhesion. Colocalized with IGF2R in internalized cytoplasmic vesicles adjacent to the cell surface and Secreted. Detected in the serum and the seminal fluid.

图片



Flow Cytometry - Anti-CD26 antibody [OX-61] (FITC) (ab112227)

Cell Source: Thymus. ab112227 at a concentration of 0.5µg.

Percentage of cells stained above control: 99.5 %.

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