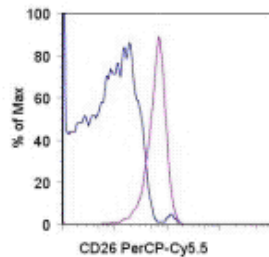


Anti-Mouse CD26 PerCP-Cyanine5.5

Catalog Number: 45-0261

Also Known As: Dipeptidyl Peptidase IV, DPPIV, DPP4,

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57BL/6 thymocytes with 0.5 ug of Rat IgG2a kappa Isotype Control PerCP-Cyanine5.5 (cat. 45-4321) (blue histogram) or 0.5 ug of Anti-Mouse CD26 PerCP-Cyanine5.5 (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD26 PerCP-Cyanine5.5


REF **Catalog Number:** 45-0261

Clone: H194-112 (H194-112.12.4.4.5)

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

Description

The monoclonal antibody H194-112 recognizes mouse CD26, a thymocyte-activating molecule (THAM). CD26 is a surface expressed and soluble ectoenzyme (dipeptidyl peptidase IV) that cleaves dipeptides from the amino terminus of proteins. In particular CD26 has been shown to cleave CXCL12, CCL22, neuropeptide Y and glucagon. CD26 is involved in adhesion, apoptosis, disease regulation, and engraftment. Expression is regulated during thymic development at the messenger RNA level. Additionally, CD26 protein is found on thymocytes, a percentage of resting B cells, stimulated B cells, NK cells and a percentage of resting and activated T cells and other epithelial cell types. On human cells more CD26 protein is found on Th2 cells. Functional CD26 is expressed on Sca-1+c-Kit+lin- cells. This expression has been shown to correlate with mobilization of progenitor cells. Inhibition of CD26 activity through a variety of compounds enhances allogenic stem cell homing and engraftment.

This antibody is reported to have activating function.

Applications Reported

This H194-112 (H194-112.12.4.4.5) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This H194-112 (H194-112.12.4.4.5) antibody has been tested by flow cytometric analysis of mouse splenocytes or thymocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Boonacker E, Van Noorden CJ. The multifunctional or moonlighting protein CD26/DPPIV. *Eur J Cell Biol.* 2003 Feb;82(2):53-73

Marguet D, Bernard AM, Vivier I, Darmoul D, Naquet P, Pierres M. cDNA cloning for mouse thymocyte-activating molecule. A multifunctional ectodipeptidyl peptidase IV (CD26) included in a subgroup of serine proteases. *J Biol Chem.* 1992 Feb 5;267(4):2200-8. (H194-112, FC, IP PubMed)

Naquet P, Vivier I, Gorvel JP, Brekelmans P, Barad M, Bernard AM, Pierres Activation of mouse T lymphocytes by a monoclonal antibody to a developmentally regulated surface aminopeptidase (THAM). *Immunol Rev.* 1989 Oct;111:177-93. (H194-112, FA)

Related Products

45-4321 Rat IgG2a K Isotype Control PerCP-Cyanine5.5 (eBR2a)

48-0032 Anti-Mouse CD3 eFluor® 450 (17A2)

93-5981 Anti-Mouse Ly-6A/E (Sca-1) eFluor® 605NC (D7)

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