

CD26 Monoclonal Antibody (H194-112 (H194-112.12.4.4.5)), PerCP-Cyanine5.5, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	H194-112 (H194-112.12.4.4.5)
Conjugate	PerCP-Cyanine5.5
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1548738

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	5 Publications

Product Specific Information

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.

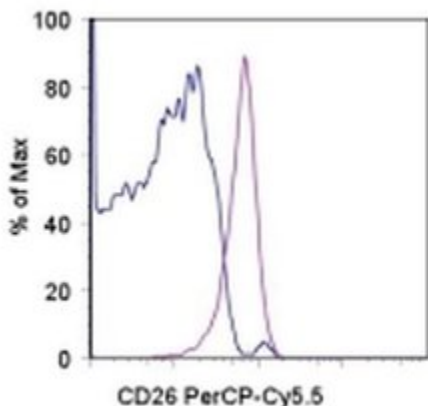
Applications Reported: This H194-112 (H194-112.12.4.4.5) antibody has been reported for use in flow cytometric analysis.

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.

Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD26 Monoclonal Antibody (H194-112 (H194-112.12.4.4.5)), PerCP-Cyanine5.5, eBioscience™



CD26 Antibody (45-0261-82) in Flow

Staining of C57BL/6 thymocytes with 0.5 µg of Rat IgG2a kappa Isotype Control PerCP-Cyanine5-5 (Product # 45-4321-80) (blue histogram) or 0.5 µg of Anti-Mouse CD26 PerCP-Cyanine5-5 (purple histogram). Total viable cells were used for analysis.

5 References

Flow Cytometry (5)

Nature

Distinct fibroblast lineages determine dermal architecture in skin development and repair.

"45-0261 was used in Flow cytometry/Cell sorting to explain why wounding is linked to formation of ECM-rich scar tissue that lacks hair follicles."

Authors: Driskell RR, Lichtenberger BM, Hoste E, Kretschmar K, Simons BD, Charalambous M, Ferron SR, Heralut Y, Pavlovic G, Ferguson-Smith AC, Watt FM

Species
Mouse

Dilution
Not Cited

Year
2013

PLoS pathogens

MyD88 signaling in dendritic cells and the intestinal epithelium controls immunity against intestinal infection with *C. rodentium*.

"45-0261 was used in Flow cytometry/Cell sorting to suggest that MyD88 signaling in DC and IEC is both essential and sufficient to induce a full spectrum of host responses upon intestinal infection with *C. rodentium*."

Authors: Friedrich C, Mamerli P, Thiemann S, Kruse F, Wang Z, Holzmann B, Strowig T, Sparwasser T, Lochner M

Species
Mouse

Dilution
Not Cited

Year
2017

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.