SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-human CD5

Catalog # / Size: 2103095 / 25 tests
2103100 / 100 tests

Clone: UCHT2

Isotype: Mouse IgG1, κ

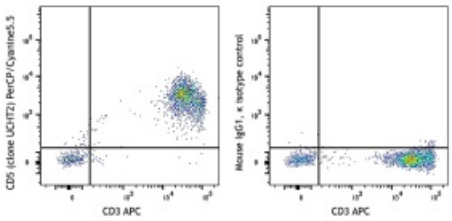
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP/Cyanine5.5 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: III 518

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 APC and CD5 (clone UCHT2) PerCP/Cyanine5.5 (left), or mouse IgG1, κ PerCP/Cyanine5.5 (right).

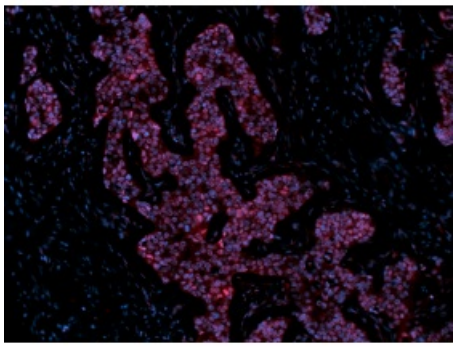
Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: Additional reported applications (for the relevant formats) include: Western blotting2 and immunohistochemical staining of acetone-fixed frozen sections[2,5].



Formalin-fixed paraffin-embedded human breast cancer tissue slices were deparaffinized and rehydrated. Antigen retrieval was done with Tris-Buffered Saline 1X (1.0 M, pH 7.4) at 95°C for 40 minutes, washed with PBS/0.05% Tween 20 twice for five minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the slices were stained with 5 µg/mL anti-EGFR (clone A19002A) Alexa Fluor® 647 (red) at 4°C overnight. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

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Application References:

1. Knapp W, *et al.* 1989. Leucocyte Typing IV Oxford University Press. New York.
2. Renaudineau Y, *et al.* 2005. *Blood* 106:2781. (WB IHC)
3. Porter JC and Hogg N. 1997. *J. Cell Biol.* 138:1437.
4. Saliba AE, *et al.* 2010. *P. Natl. Acad. Sci. USA* 107:14524. PubMed
5. Kap Y, *et al.* 2009. *J. Histochem. Cytochem.* 57:1159. (IHC)

Description: CD5 is a 67 kD single chain type I glycoprotein also known as Leu-1, Ly-1 and T1. It is a member of the scavenger receptor superfamily found on T cells, thymocytes, B cell subsets, chronic B lymphocytic leukemia (B-Cells), and peripheral blood dendritic cells. CD5 modulates T and B cell receptor signaling, thymocyte maturation, and T-B cell interactions upon binding to ligands such as CD72.

Antigen References:

1. Kipps T. 1988. *Adv. Immunol.* 47:117.
2. Resnick D, *et al.* 1993. *Trends Biochem.* Sci. 19:5.
3. Wood GS, *et al.* 1992. *Am. J. Pathol.* 14:789.

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