SONY

Product Data Sheet

PE anti-human CD10

Catalog # / Size: 2161015 / 25 tests
2161020 / 100 tests

Clone: HI10a

Isotype: Mouse IgG1, κ

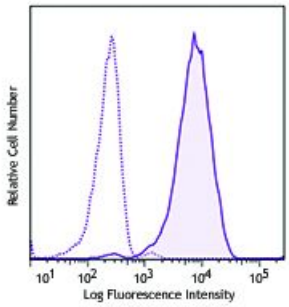
Reactivity: Human, Non-human primate

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.

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

Workshop Number: V CD10.7

Concentration: Lot-specific

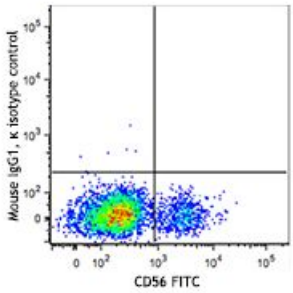


Human peripheral blood granulocytes were stained with CD10 (clone HI10a) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Application Notes: Additional reported (for the relevant formats) applications include: immunohistochemistry[6].

Application References:

1. Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.
2. Barclay N, *et al.* 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego.
3. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
4. Denny MF, *et al.* 2010. *J. Immunol.* 184:3284. PubMed
5. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
6. Dall'Era MA, *et al.* 2007. *BMC Urol.* 7:3. (IHC)
7. Pelissier FA, *et al.* 2014. *Cell Rep.* 26:1926. PubMed

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Description: CD10 is a 100 kD neutral endopeptidase and a member of the metalloprotease family. It is a type II transmembrane protein also known as common acute lymphoblastic leukemia antigen (CALLA), enkephalinase, and neprilysin. CD10 is expressed on B cell precursors, T cell precursors, and neutrophils. CD10 is involved in B cell development and has been shown to bind opioid enkephalins, bradykinin, angiotensins I and II, and other biologically active peptides.

Antigen References:

1. Shipp M, *et al.* 1993. *Blood* 82:1052.
2. Lu B, *et al.* 1995. *J. Exp. Med.* 181:2271.

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