

## PE/Cy7 anti-human CD10

**Catalog # / Size:** 312213 / 25 tests  
312214 / 100 tests

**Clone:** HI10a

**Isotype:** Mouse IgG1,  $\kappa$

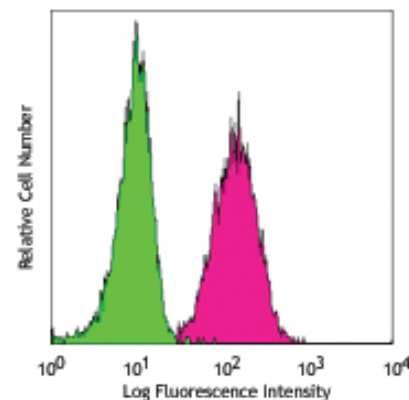
**Workshop Number:** V CD10.7

**Reactivity:** Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Capuchin Monkey

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood granulocytes stained with HI10a PE/Cy7

## Applications:

**Applications:** FC - Quality tested

**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  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported (for the relevant formats) applications include: Western blotting.

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- Application References:**
- Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.
  - Barclay N, *et al.* 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego.
  - Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
  - Denny MF, *et al.* 2010. *J. Immunol.* 184:3284. PubMed
  - Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
  - Simpfendorfer KR, *et al.* 2012. *Hum Mol Genet.* 21:3918. PubMed.
  - Bilwani FA, *et al.* 2012. *J. Immunol.* 189:4379. PubMed.

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

### Related Products:

Product	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
PE/Cy7 Mouse IgG1, $\kappa$ Isotype Ctrl	MOPC-21	FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

### Clone

MOPC-21

### Application

FC, ICC, ICFC  
FC, ICFC  
FC, ICFC  
FC, ICC, ICFC



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