## Technical Data Sheet

# PE Mouse Anti-Human CD10

#### **Product Information**

Material Number: 555375

MME; CALLA; EPN; NEP; neprilysin; SFE; atriopeptidase; enkephalinase **Alternate Name:** 

Size: 100 Tests Vol. per Test: 20 μl Clone: HI10a

Immunogen: Acute CALLA Leukemia Blast Cells

Mouse (BALB/c) IgG1, κ Isotype: Reactivity: QC Testing: Human

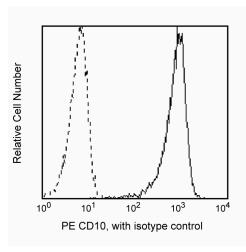
Tested in Development: Rhesus, Cynomolgus, Baboon

V CD107 Workshop:

Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

#### Description

The HI10a monoclonal antibody specifically binds to CD10 which is also known as Neutral endopeptidase (NEP), Enkephalinase, Atriopeptidase, and Neprilysin. CD10 is encoded by MME (membrane metallo-endopeptidase). CD10 is a 100 kDa type II transmembrane glycoprotein that has neutral endopeptidase activity and is otherwise known as the Common Acute Lymphoblastic Leukemia Antigen (CALLA), CD10 is expressed on a wide variety of normal and neoplastic cell types. Normal cells expressing CD10 include granulocytes, bone marrow stromal cells, a subset of B-cell progenitors, germinal center B cells and fibroblasts. This cell surface metalloendopeptidase inactivates a number of signaling molecules and serves as a major regulator in the nervous, immune and other systems.



Flow cytometric analysis of CD10 expression on REH cell line. REH cells were stained with either PE Mouse Anti-Human CD10 (Cat. No. 555375/561002; solid line histogram) or PE Mouse IgG1, κ Isotype Control (Cat.No. 555749; dashed line histogram). Fluorescence histograms depicting CD10 (or Ig isotype control) expression were derived from gated events with the side and forward light-scattering characteristics of viable cells. Flow cytometry was performed on a BD FACScan<sup>™</sup> system.

## **Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

### **Application Notes**

## Application

Flow cytometry Routinely Tested

## **Suggested Companion Products**

Catalog Number	Name	Size	Clone	
555749	PE Mouse IgG1, κ Isotype Control	100 Tests	MOPC-21	
561002	PE Mouse Anti-Human CD10	25 Tests	HI10a	
554656	Stain Buffer (FBS)	500 mL	(none)	
554657	Stain Buffer (BSA)	500 mL	(none)	

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### **Product Notices**

- 1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100- $\mu$ l experimental sample (a test).
- 2. An isotype control should be used at the same concentration as the antibody of interest.
- 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
- 6. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.
- 7. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

#### References

Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997(Biology)

Knapp W. W. Knapp .. et al., ed. *Leucocyte typing IV*: white cell differentiation antigens. Oxford New York: Oxford University Press; 1989:1-1182. (Biology)

Letarte M, Vera S, Tran R, et al. Common acute lymphocytic leukemia antigen is identical to neutral endopeptidase. *J Exp Med.* 1988; 168(4):1247-1253. (Biology)

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