Technical Data Sheet

Purified Mouse Anti-Human CD10

Product Information

Material Number: 555373

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

Size: $0.1 \, \text{mg}$ **Concentration:** 0.5 mg/ml Clone: HI10a

Immunogen: Acute CALLA Leukemia Blast Cells

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

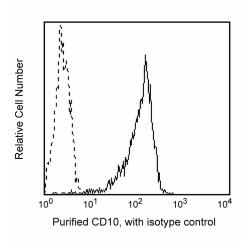
Tested in Development: Rhesus, Cynomolgus, Baboon

V CD107 Workshop:

Storage Buffer: Aqueous buffered solution containing ≤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 Purified Mouse Anti-Human CD10 (Cat. No. 555373; solid line histogram) or Purified Mouse IgG1, κ Isotype Control (Cat.No. 555746; dashed line histogram), then FITC Goat Anti-Mouse IgG/IgM (Cat. No. 555988). 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

Preparation and Storage

Store undiluted at 4°C.

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

Application Notes

Application

Flow cytometry Routinely Tested

Suggested Companion Products

| Catalog Number | Name | Size | Clone | |
|----------------|--|--------|------------|--|
| 555746 | Purified Mouse IgG1, κ Isotype Control | 0.1 mg | MOPC-21 | |
| 555988 | FITC Goat Anti-Mouse IgG/IgM | 0.5 mg | Polyclonal | |
| 554656 | Stain Buffer (FBS) | 500 mL | (none) | |
| 554657 | Stain Buffer (BSA) | 500 mL | (none) | |

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Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. An isotype control should be used at the same concentration as the antibody of interest.
- 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.
- 4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
- 5. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.
- 6. 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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