

## Anti-Human CD10 FITC

Catalog Number :02221-50

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** HI10a

**Format/Conjugate:** FITC

**Concentration:** 5 $\mu$ L (2.0 $\mu$ g)/test

**Reactivity:** Human

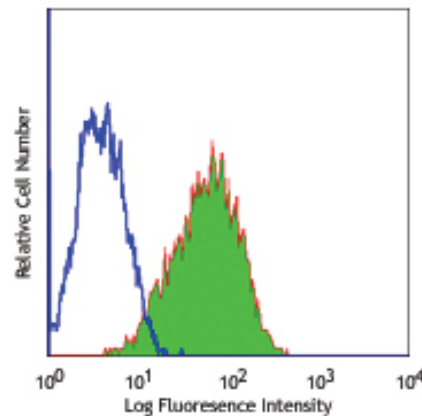
**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3



Human pre-B REH cells were stained with FITC HI10a with relevant isotype control in blue.

**Isotype:** Mouse IgG1, kappa

**Formulation:** Phosphate-buffered aqueous solution,  $\leq$ 0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C.

**Applications:** FC

### Description

The HI10a monoclonal antibody specifically reacts with human CD10, a 100kDA type II glycoprotein also known as common acute lymphoblastic leukemia antigen (CALLA), enkephalinase, and neprilysin. CD10 is expressed on neutrophils and the precursors of B and T cells. It is involved in the neutrophil inflammatory and chemotactic responses and B cell development.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5  $\mu$ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100  $\mu$ L.

### References

1. Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.2406.
2. Letarte, M. I. C. H. E. L. L. E., Vera, S., Tran, R. O. S. E. T. T. E., Addis, J. B., Onizuka, R. J., Quackenbush, E. J., ... McInnes, R. R. (1988). Common acute lymphocytic leukemia antigen is identical to neutral endopeptidase.;The Journal of experimental medicine.;168(4), 1247-1253.
3. Bellido, M., Rubiol, E., Ubeda, J., Lopez, O., Estivill, C., Carnicer, M. J., ... Nomdedeu, J. (2001). Flow cytometry using the monoclonal antibody CD10-Pe/Cy5 is a useful tool to identify follicular lymphoma cells.;European journal of haematology.;66(2), 100-106.