Revision 1

#3565 Store at -20C

CD10 (CB-CALLA) Mouse mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H	Endogenous	100	Mouse IgG1	#P08473	4311

Product Usage Information

Application	Dilution
Flow Cytometry (Fixed/Permeabilized)	1:25

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

CD10 (CB-CALLA) Mouse mAb detects endogenous levels of CD10.

Source / Purification

Monoclonal antibody is produced by immunizing BALB/c mice with CALLA cells.

Background

CD10 (CALLA or neprilysin) was identified as a marker for leukemic cells in children with acute lymphoblastic leukemia and belongs to a family of exoenzymes that include aminopeptidase A, N and dipeptidylpeptidase IV (1-2). CD10 is a transmembrane type II molecule and functions as a metallo-peptidase requiring zinc. Specifically, CD10 cleaves 1-3 amino-terminal amino acids from peptides with a preference for neutral amino acids (valine, iso-leucine, phenylalanine, leucine or alanine) (2). The CD10 antigen is expressed by immature and by germinal center B cells, by granulocytes and by acute B-cell lymphoblastic leukemia cells. Therefore, CD10 appears to be involved in late stage regulation of hematopoietic cells (3).

Background References

1. Greaves , M. F. et al. (1975) *Clin. Immunol. Immunopathol.* 4, 67-84.
2. Shipp, M.A. and Look, A.T. (1993) *Blood* 82, 1052-1070.
3. Bene, M. C. et al. (1997) *Haematologica.* 82, 205-210.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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