Antibodies

Anti-Human CD10 Antibody, Clone FR4D11

Mouse monoclonal IgG1 antibody against human CD10, unconjugated

Catalog #60149 100 µg 1 mg/mL

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Product Description

The FR4D11 antibody reacts with CD10, a 100 kDa type II transmembrane glycoprotein. CD10 is a cell surface enzyme with neutral metalloendopeptidase activity which inactivates a variety of biologically active peptides. CD10 is expressed on the cells of lymphoblastic, Burkitt's and follicular germinal center lymphomas, immature and transitional B cells within adult bone marrow, and on blast cells from patients with chronic myelocytic leukemia (CML). CD10 is also present on breast myoepithelial cells, bile canaliculi, fibroblasts on the brush border of kidney, and gut epithelial cells. Most notably, CD10 was reported to mark human mammary bipotent progenitors.

Target Antigen Name:	CD10
Alternative Names:	Common acute lymphoblastic leukemia antigen (CALLA), Enkephalinase, gp100, Membrane metalloendopeptidase (MME), Neprilysin, Neutral endopeptidase (NEP)
Gene ID:	4311
Species Reactivity:	Human
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	FR4D11
Isotype:	IgG1
Immunogen:	Human Raji (Burkitt's lymphoma) lymphoblast cell line
Conjugate:	Unconjugated

Applications

Verified:	FC
Reported:	FACS, FC, IHC, IP, WB

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered saline
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is 1 - 3 µg per 1 x 10^6 cells in 100 µL volume. The antibody is also suitable for immunohistochemistry staining of frozen tissue sections but not paraffin-embedded tissue sections. It is recommended that the antibody be titrated for optimal performance for each application.

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

1. Petrelli A et al. (2015) By promoting cell differentiation, miR-100 sensitizes basal-like breast cancer stem cells to hormonal therapy. Oncotarget 6(4): 2315–30. (FACS, FC)
2. Malaspina A et al. (2006) Appearance of immature/transitional B cells in HIV-infected individuals with advanced disease: correlation with increased IL-7. Proc Natl Acad Sci U S A 103(7): 2262–7.
3. Iwase A et al. (2004) Direct binding of neutral endopeptidase 24.11 to ezrin/radixin/moesin (ERM) proteins competes with the interaction of CD44 with ERM proteins. J Biol Chem 279(12): 11898–905. (IP, WB)
4. Akiyama H et al. (2001) Immunohistochemical localization of neprilysin in the human cerebral cortex: inverse association with vulnerability to amyloid beta-protein (Abeta) deposition. Brain Res 902(2): 277–81. (IHC)
5. Ohkubo K et al. (1998) Aminopeptidase activity in human nasal mucosa. J Allergy Clin Immunol 102(5): 741–50.
6. Letarte M et al. (1988) Common acute lymphocytic leukemia antigen is identical to neutral endopeptidase. J Exp Med 168(4): 1247–53.