

## ARG66325 anti-CD10 antibody [SQab1873]

Package: 100 µl, 50 µl  
Store at: -20°C

### Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab1873] recognizes CD10
Tested Reactivity	Hu, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Monoclonal
Clone	SQab1873
Isotype	IgG
Target Name	CD10
Species	Human
Immunogen	Recombinant protein within aa. 1-500 of CD10.
Conjugation	Un-conjugated
Alternate Names	Enkephalinase; Neutral endopeptidase; Neutral endopeptidase 24.11; Common acute lymphocytic leukemia antigen; Neprilysin; CD antigen CD10; CALLA; EC 3.4.24.11; CD10; Skin fibroblast elastase; SFE; Atriopeptidase; NEP

### Application Instructions

Application table	Application	Dilution
	FACS	1:800 - 1:2000
	IHC-P	1:3200 - 1:6400
	WB	1:2000 - 1:5000
Application Note	IHC-P: Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer pH 9.0. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

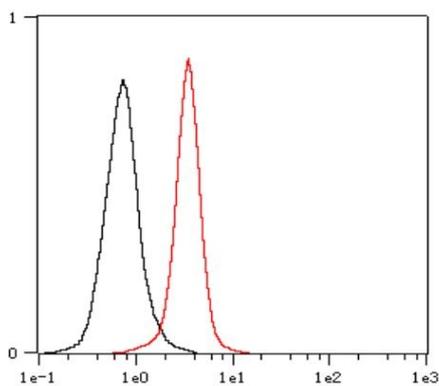
Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

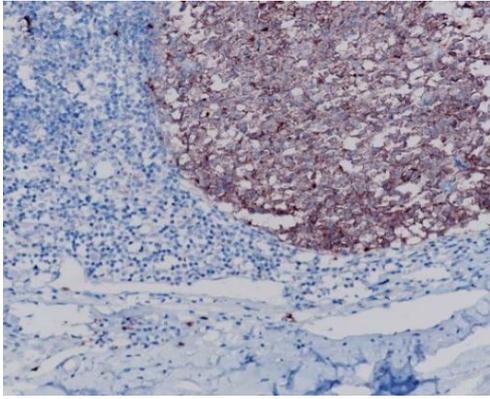
Gene Symbol	MME
Gene Full Name	membrane metallo-endopeptidase
Background	CD10 is a type II transmembrane glycoprotein and a common acute lymphocytic leukemia antigen that is an important cell surface marker in the diagnosis of human acute lymphocytic leukemia (ALL). The encoded protein is present on leukemic cells of pre-B phenotype, which represent 85% of cases of ALL. This protein is not restricted to leukemic cells, however, and is found on a variety of normal tissues. The protein is a neutral endopeptidase that cleaves peptides at the amino side of hydrophobic residues and inactivates several peptide hormones including glucagon, enkephalins, substance P, neurotensin, oxytocin, and bradykinin. [provided by RefSeq, Aug 2017]
Function	CD10: Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids (PubMed:15283675, PubMed:8168535). Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond (PubMed:17101991). Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9 (PubMed:15283675). Involved in the degradation of atrial natriuretic factor (ANF) (PubMed:2531377, PubMed:2972276). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers (PubMed:20876573). [UniProt]
Highlight	Related products: <a href="#">CD10 antibodies</a> ; <a href="#">CD10 ELISA Kits</a> ; <a href="#">CD10 Duos / Panels</a> ; <a href="#">Anti-Rabbit IgG secondary antibodies</a> ; Related news: <a href="#">Cancer Pathology Markers (SQ clones)</a>
Calculated Mw	86 kDa
PTM	Myristoylation is a determinant of membrane targeting.  Glycosylation at Asn-628 is necessary both for surface expression and neutral endopeptidase activity. [UniProt]

## Images



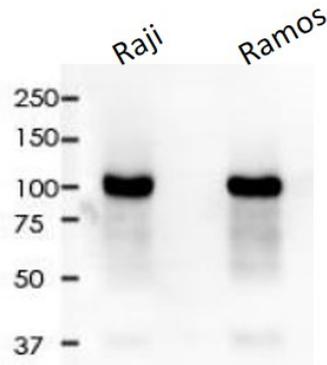
ARG66325 anti-CD10 antibody [SQab1873] FACS image

Flow Cytometry: Raji cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were stained with ARG66325 anti-CD10 antibody [SQab1873] (red) at 1:2,000 dilution in 1x PBS/1% BSA for 30 min at RT, followed by Alexa Fluor® 488 labelled secondary antibody. Unlabelled sample (black) was used as a control.



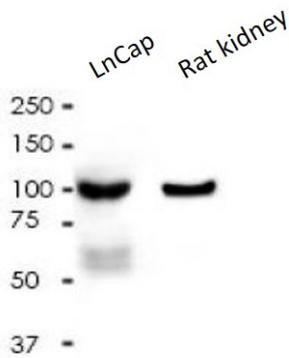
ARG66325 anti-CD10 antibody [SQab1873] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded appendix tissue stained with ARG66325 anti-CD10 antibody [SQab1873] at 1:6,400 dilution. Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer pH 9.0.



ARG66325 anti-CD10 antibody [SQab1873] WB image

Western blot: 10 µg of Raji and Ramos cell lysates stained with ARG66325 anti-CD10 antibody [SQab1873] at 1:2000 dilution.



ARG66325 anti-CD10 antibody [SQab1873] WB image

Western blot: 10 µg of LnCap and Rat kidney lysates stained with ARG66325 anti-CD10 antibody [SQab1873] at 1:2000 dilution.