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Datasheet for ABIN94161 anti-CD5 antibody

3 Images

1 Publication



Overview

Quantity:	0.1 mg
Target:	CD5
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD5 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Crude thymus membrane fraction.
Clone:	MEM-32
Isotype:	lgG1
Specificity:	The antibody MEM-32 reacts with an extracellular epitope of CD5, a 67 kDa single-chain transmembrane glycoprotein expressed on mature T-lymphocytes, most of thymocytes and B-lymphocytes subset (B-1a lymphocytes).
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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Target Details	
Target:	CD5
Alternative Name:	CD5 (CD5 Products)
Background:	CD5 Molecule,CD5 antigen (T1, 67 kDa) is a human cell surface T-lymphocyte single-chain
	transmembrane glycoprotein. CD5 is expressed on all mature T-lymphocytes, most of
	thymocytes, subset of B-lymphocytes and on many T-cell leukemias and lymphomas. It is a
	type I membrane glycoprotein whose extracellular region contains three scavenger receptor
	cysteine-rich (SRCR) domains. The CD5 is a signal transducing molecule whose cytoplasmic
	tail is devoid of any intrinsic catalytic activity. CD5 modulates signaling through the antigen-
	specific receptor complex (TCR and BCR). CD5 crosslinking induces extracellular Ca++
	mobilization, tyrosine phosphorylation of intracellular proteins and DAG production. Preliminary
	evidence shows protein associations with ZAP-70, p56lck, p59fyn, PC-PLC, etc. CD5 may serve
	as a dual receptor, giving either stimulatory or inhibitory signals depending both on the cell type
	and development stage. In thymocytes and B1a cells it seems to provide inhibitory signals, in
	peripheral mature T lymhocytes it acts as a costimulatory signal receptor. CD5 is the
	phenotypic marker of a B cell subpopulation involved in the production of autoreactive
	antibodies. Disease relevance: CD5 is a phenotypic marker for some B cell lymphoproliferative
	disorders (B-CLL, Hairy cell leukemia, etc.). The CD5+ popuation is expanded in some
	autoimmune disorders (rheumatoid arthritis, etc.). Herpes virus infections induce loss of CD5
	expression in the expanded CD8+ human T cells.,T1, LEU1
Gene ID:	921
UniProt:	P06127
Application Details	
Application Notes:	ELISA: The antibody MEM-32 can be used in the Sandwich ELISA as the capture antibody in pair
	with the detection antibody CRIS1.
	Immunohistochemistry (paraffin sections): Recommended dilution: 20 μ g/mL, positive tissue:
	spleen.
	Flow cytometry: Recommended dilution: 2 µg/mL.
	Western blotting: Laurylmaltoside lysing buffer, non-reducing conditions, recommended
	dilution: 1-2 µg/mL.
Restrictions:	For Research Use only

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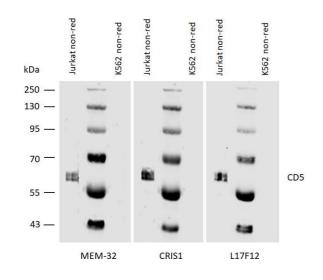
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

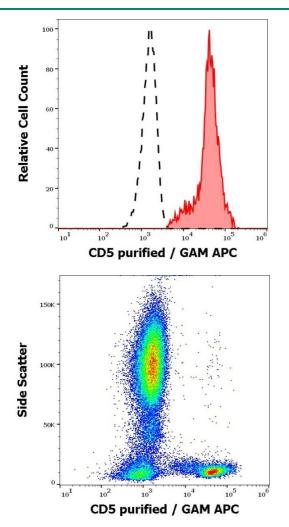
Product cited in: Hrdinka, Dráber, Stepánek, Ormsby, Otáhal, Angelisová, Brdicka, Paces, Horejsí, Drbal: "PRR7 is a transmembrane adaptor protein expressed in activated T cells involved in regulation of T cell receptor signaling and apoptosis." in: **The Journal of biological chemistry**, Vol. 286, Issue 22, pp. 19617-29, (2011) (PubMed).

Images



Western Blotting

Image 1. Western blotting analysis of human CD5 using mouse monoclonal antibodies MEM-32, CRIS1, and L17F12 on laurylmaltoside lysates of Jurkat cells and of K562 cells (negative control) under non-reducing conditions. Nitrocellulose membrane was probed with 2 μg/mL of mouse anti-CD5 monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. CD5 was detected at approximately 62 kDa.



Flow Cytometry

Image 2. Separation of human CD5 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD5 (MEM-32) purified antibody (concentration in sample 3 μ g/mL, GAM APC).

Flow Cytometry

Image 3. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD5 (MEM-32) purified antibody (concentration in sample 3 μ g/mL, GAM APC).

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