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Datasheet for ABIN967346 anti-CD93 antibody

1 Image

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Overview

Quantity:	0.1 mg
Target:	CD93
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD93 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Brand:	BD Pharmingen™
Immunogen:	C1q-binding protein
Clone:	R3
lsotype:	IgM kappa
Characteristics:	 Since applications vary, each investigator should titrate the reagent to obtain optimal results. Please refer to us for technical protocols. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

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Target Details

Target:	CD93
Alternative Name:	CDw93 (CD93 Products)
Background:	The immunogen used to raise R3 was C1q-binding protein preparation as described. Human
	C1qRp is a 631 a.a. protein (~66.5 kD) protein that is highly expressed on
	monocytes/macrophages, neutrophil granulocytes but not on T and B lymphocytes. C1qRp
	binds C1q, the recognition subunit of the first component (C1) of the complement pathway, as
	well as MBL (Mannose-binding-lectin) and SPA (Pulmonary Surfactant Protein A). Human
	C1qRp is involved in the C1q-mediated enhancement of phagocytosis. R3 is suitable to detect
	C1qRp expression on cells of myeloid lineage by flow cytometry, C1qRp in cellular lysates by
	Western blotting or immunoprecipitation. Pretreatment of monocytes with R3 neutralizes C1q
	mediated enhancement of phagocytosis. In addition, when immobilized, R3 mimics C1q- MBL-
	or SPA-mediated enhancement of phagocytosis as reported.
	CDw93 (C1qRp) has been reported to define a human stem cell population with hematopoietic
	and hepatic potential.
	Synonyms: C1qRp

Application Details

Application Notes:	Immunofluorescent Staining and Flow Cytometric Analysis:
	The staining technique and blocking controls are described in detail by C. Prussin and D.
	Metcalfe. A suitable mouse IgM, kappa isotype control for assessing the level of background
	staining on human cells is recommended: use at comparable concentrations to antibody of
	interest (eg, Less or equal than 0.5 μ g Ab/1 million cells) (see Figure).
	Western Blotting and immunoprecipitation:
	When run under non-reducing conditions, Human C1qRp migrates as a 100 kDa protein, due to
	high level of glycosylation C1qR migrates as 126 kDa under reducing conditions. The R3
	antibody is suitable to detect C1qRp by Western blotting and immunprecipitation as described,
	however, the antibody is not tested for this application. Reactivity of the antibody with the
	reduced protein is dramatically decreased.
	Modulation of monocyte phagocytic activity:
	Pretreatment of monocytes with R3 neutralizes C1q-mediated enhancement of phagocytosis.
	In addition, when immobilized, R3 mimics C1q- MBL- or SPA-mediated enhancement of
	phagocytosis, however, the antibody is not tested for this application.

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Application Details

Restrictions:

For Research Use only

Handling

rianding	
Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % 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.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.
Publications	
Product cited in:	Danet, Luongo, Butler, Lu, Tenner, Simon, Bonnet: "C1qRp defines a new human stem cell
	population with hematopoietic and hepatic potential." in: Proceedings of the National Academy
	of Sciences of the United States of America, Vol. 99, Issue 16, pp. 10441-5, (2002) (PubMed).
	Nepomuceno, Ruiz, Park, Tenner: "C1qRP is a heavily O-glycosylated cell surface protein
	involved in the regulation of phagocytic activity." in: Journal of immunology (Baltimore, Md. :
	1950) , Vol. 162, Issue 6, pp. 3583-9, (1999) (PubMed).
	Tenner: "C1q receptors: regulating specific functions of phagocytic cells." in: Immunobiology,
	Vol. 199, Issue 2, pp. 250-64, (1999) (PubMed).
	Nepomuceno, Tenner: "C1qRP, the C1q receptor that enhances phagocytosis, is detected
	specifically in human cells of myeloid lineage, endothelial cells, and platelets." in: Journal of
	immunology (Baltimore, Md. : 1950), Vol. 160, Issue 4, pp. 1929-35, (1998) (PubMed).
	Nepomuceno, Henschen-Edman, Burgess, Tenner: "cDNA cloning and primary structure
	analysis of C1qR(P), the human C1q/MBL/SPA receptor that mediates enhanced phagocytosis
	in vitro." in: Immunity , Vol. 6, Issue 2, pp. 119-29, (1997) (PubMed).
	There are more publications referencing this product on: Product page

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Image 1. Expression of C1qRp by unstimulated human peripheral blood mononuclear cells (PBMC). Human PBMC were stained with mouse anti-human C1qRp antibody (R3, ABIN967346) by using the staining protocol. A histogram overlay shows specific cell staining of gated monocytes with R3 (0.125 μ g) followed by biotin-goat-anti-mouse secondary antibody and Streptavidin PE compared to isotype control.

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