Datasheet for ABIN1177363

anti-CD93 antibody

1 Image | 8 Publications

Go to Product page

Overview

Quantity:	0.5 mg
Target:	CD93
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD93 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Neutralization (Neut)

Product Details

Brand:	BD Pharmingen™
Clone:	R139
Isotype:	IgG2b kappa
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin level is ≤ 0.01 EU/µg (≤ 0.001 ng/µg) of protein as determined by the LAL assay.

Target Details

Target:	CD93
Alternative Name:	CDw93 (CD93 Products)

Target Details

Background:	The immunogen used to raise R139 antibody was C1q-binding protein preparation derived from U937 cell lysates, as described. Human CDw93 (C1qRp) is a 631 AA, single chain type I membrane glycoprotein expressed on cells of myeloid origin, endothelial cells, and hematopoietic progenitor cells. Human, murine and rat protein sequences have been deduced from cDNA clones and are known to be similar in sequence and organization. CDw93 (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). Multivalent interaction of CDw93 (C1qRp) expressing cells with C1q, MBL, and SPA, induces enhancement of phagocytosis of suboptimally opsonized particles and/or cellular debris. Antibody R139 neutralizes/blocks C1q-mediated enhancement of phagocytosis, as reported. In addition clone R139 is suitable to detect CDw93 (C1qRp) expression on cells by flow cytometry, CDw93 (C1qRp) in cellular lysates by Western blotting or immunoprecipitation. CDw93 (C1qRp) has been reported to define a human stem cell population with hematopoietic and hepatic potential. Synonyms: C1qRp

Application Details

Application Notes:	This NA/LE format is useful for in vitro functional studies. This antibody has been tested for LAL assay for low endotoxin level and by immunofluorescent staining in flow cytometric analysis to assure specificity and reactivity. Immunofluorescent Staining and Flow Cytometric Analysis: The staining technique and controls are described in detail by C. Prussin and D. Metcalfe. A suitable mouse IgG2b isotype control for assessing the level of background staining on human cells is recommended: use at comparable concentrations to antibody of interest (e.g., ≤ 0.125 µg mAb/1 million cells).
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered.
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

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).

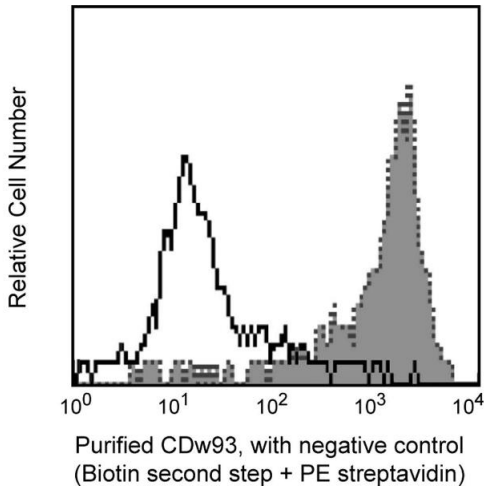
Tenner: "C1q receptors: regulating specific functions of phagocytic cells." in: **Immunobiology**, Vol. 199, Issue 2, pp. 250-64, (1999) (PubMed).

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

Images



Purified CDw93, with negative control
(Biotin second step + PE streptavidin)

Flow Cytometry

Image 1.