

Rat CD93/C1qR ELISA Kit | CD93/C1qR elisa kit

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CATALOG #
AAA258502

REACTIVITY
Rat

PRODUCT SYNONYMS

CD93/C1qR; Rat CD93/C1qR ELISA Kit; CD93 ELISA Kit; Rat; CD93 molecule; CD93/C1qR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	For the quantitative determination of Rat CD93/C1qR concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	18.75-1200pg/mL
Sensitivity	9.56pg/mL
Conjugation	HRP
Interference	Preparations of human CD93 at 50ng/mL in a mid-range recombinant rat CD93 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

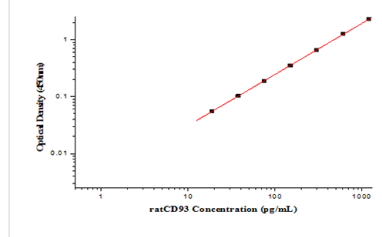
IMAGES

Recombinant human			
CD93			
Recombinant rat			
IL1B	IL2	IL10	IL12B
TNFA	IL6	IFN gama	CCL3
TIMP1	CSF2	VEGF164	

Application Data

This assay recognizes both recombinant and natural Rat CD93. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
18.75	0.055
37.5	0.103
75	0.190
150	0.350
300	0.656
600	1.254
1200	2.265



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for CD93/C1qR elisa kit	This CD93 ELISA Kit, Rat is an enzyme-linked immunosorbent assay for the quantitative measurement of Rat CD93 protein in Serum. It contains recombinant Rat CD93, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: CD93 or C1q receptor 1 (C1qR) is an about 120 kDa O-sialoglycoprotein that within the hematopoietic system is selectively expressed on cells of the myeloid lineage. CD93/C1qR is a highly glycosylated transmembrane protein expressed on monocytes, neutrophils, endothelial cells, and stem cells. CD93 was originally identified as a myeloid cell-surface marker and subsequently associated with an ability to modulate phagocytosis of suboptimally opsonized immunoglobulin G and complement particles in vitro. CD93/C1qR, a receptor expressed during early B-cell development, is reinduced during plasma-cell differentiation. High CD93/CD138 expression was restricted to antibody-secreting cells both in T-dependent and T-independent responses as naive, memory, and germinal-center B cells remained CD93-negative. CD93 was expressed on (pre)plasmablasts/plasma cells, including long-lived plasma cells that showed decreased cell cycle activity, high levels of isotype-switched Ig secretion, and modification of the transcriptional network. CD93 is important for the maintenance of plasma cells in bone marrow niches.
References	Bohlson SS, et al. (2005) CD93 is rapidly shed from the surface of human myeloid cells and the soluble form is detected in human plasma. J Immunol. 175(2): 1239-47. Norsworthy PJ, et al. (2004) Murine CD93 (C1qRp) contributes to the removal of apoptotic cells in vivo but is not required for C1q-mediated enhancement of phagocytosis. J Immunol. 172(6): 3406-14. Chevrier S, et al. (2009) CD93 is required for maintenance of antibody secretion and persistence of plasma cells in the bone marrow niche. Proc Natl Acad Sci U S A. 106(10): 3895-900.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/cd93-c1qr/258502>