

Rat Cluster Of Differentiation 8a (CD8a) ELISA Kit | CD8a elisa kit

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CATALOG #
AAA190298

REACTIVITY
Rat

PRODUCT SYNONYMS

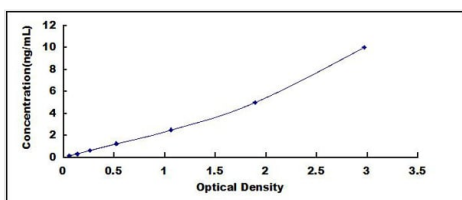
Cluster Of Differentiation 8a (CD8a); Rat Cluster Of Differentiation 8a (CD8a) ELISA Kit; CD8a ELISA kit (Rat); Cluster Of Differentiation 8a; p32; CD8-A; Leu2; MAL; T-cell surface glycoprotein CD8 alpha chain; T-lymphocyte differentiation antigen T8/Leu-2; CD8a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Cluster Of Differentiation 8a (CD8a). No significant cross-reactivity or interference between Cluster Of Differentiation 8a (CD8a) and analogues was observed. Reactive with Rat CD8a/Cluster Of Differentiation 8a
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.054ng/mL
Sample Size	100uL
Detection Method	Colormetric
Featured Series	SE kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Cluster Of Differentiation 8a (CD8a) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Cluster Of Differentiation 8a (CD8a) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (regular version)
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Cluster Of Differentiation 8a (CD8a). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Cluster Of Differentiation 8a (CD8a). Next, Avidin conjugated Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Cluster Of Differentiation 8a (CD8a), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Cluster Of Differentiation 8a (CD8a) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Signal transduction, CD & Adhesion molecule, Tumor immunity, Infection immunity, Immune molecule
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	13928726
NCBI GeneID	24930
NCBI Accession #	NP_113726.1
NCBI GenBank Nucleotide #	NM_031538.2
UniProt Accession #	P07725
Molecular Weight	26,196 Da
NCBI Official Full Name	T-cell surface glycoprotein CD8 alpha chain
NCBI Official Synonym Full Names	CD8a molecule
NCBI Official Symbol	Cd8a
NCBI Protein Information	T-cell surface glycoprotein CD8 alpha chain; CD8 antigen 32 kDa chain; CD8 antigen alpha-chain; CD8 antigen, alpha chain; CD8 antigen, alpha-chain; OX-8 membrane antigen
UniProt Protein Name	T-cell surface glycoprotein CD8 alpha chain
UniProt Gene Name	Cd8a
UniProt Entry Name	CD8A_RAT

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.