

Rat Myogenic Differentiation (MyoD) ELISA Kit | MyoD elisa kit

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CATALOG #
AAA67887

REACTIVITY
Rat

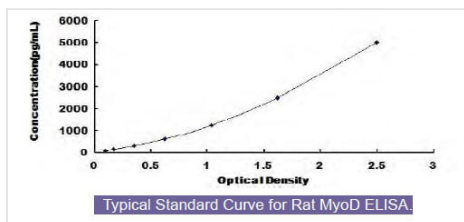
PRODUCT SYNONYMS

Myogenic Differentiation (MyoD); Rat Myogenic Differentiation (MyoD) ELISA Kit; MYOD1; PUM; MYF3; bHLHc1; Myoblast Determination Protein 1; Myogenic Factor 3; Class C basic helix-loop-helix protein 1; MyoD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of MyoD. No significant cross-reactivity or interference between MyoD and analogues was observed.
Sequence Length	318
Samples	Rat tissue homogenates, cell lysates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	78.1-5000pg/mL
Sensitivity	< 27pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level MyoD were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level MyoD were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MyoD elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of MyoD in rat tissue homogenates, cell lysates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to MyoD. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to MyoD. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain MyoD, 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 MyoD in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	28570184
NCBI GeneID	337868
NCBI Accession #	NP_788268.1
NCBI GenBank Nucleotide #	NM_176079.1
UniProt Accession #	Q02346
Molecular Weight	34,359 Da
NCBI Official Full Name	myoblast determination protein 1
NCBI Official Synonym Full Names	myogenic differentiation 1
NCBI Official Symbol	Myod1
NCBI Protein Information	myoblast determination protein 1
UniProt Protein Name	Myoblast determination protein 1
UniProt Gene Name	Myod1
UniProt Synonym Gene Names	Myod

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.