

Actin Beta (ACTb) ELISA Kit | ACTb elisa kit

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CATALOG #
AAA135699

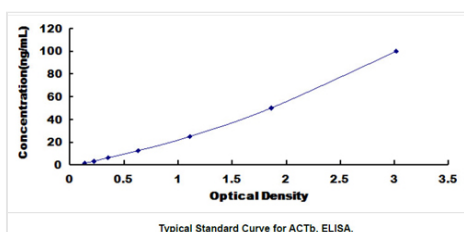
PRODUCT SYNONYMS

Actin Beta (ACTb); Actin Beta (ACTb) ELISA Kit; ACTb elisa kit

PRODUCT SPECIFICATIONS

Specificity	This assay has high sensitivity for detection of ACTb. 100% cross-reactivity of ACTb was observed among human, mouse and rat. 94% cross-reactivity was observed between ACTb and ACTa1.
Sequence Length	375
Samples	Tissue homogenates, Cell lysates, cell culture supernates and other biological fluids. Due to the 100% homology of the sequence among different species, the kit can be used to detect human, mouse and rat samples
Detection Range	1.56-100ng/mL
Sensitivity	The minimum detectable dose of ACTb is typically less than 0.63ng/mL. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ACTb 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 ACTb were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intended Uses	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ACTb in tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Due to the 100% homology of the sequence among different species, the kit can be used to detect human, mouse and rat samples.
Preparation and Storage	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)

ADDITIONAL INFORMATION

Related Product Information for ACTb elisa kit	Principle of the assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ACTb. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to ACTb. 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 ACTb, 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 ACTb 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 #	185132289
NCBI GeneID	100135845
NCBI Accession #	NP_001117707.1
NCBI GenBank Nucleotide #	NM_001124235.1
NCBI Official Full Name	actin beta
NCBI Official Symbol	actb
NCBI Official Synonym Symbols	B-actin; beta-actin
NCBI Protein Information	actin beta

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/elisa-kits/actin-beta-actb/135699>