

Rat Rho Associated Coiled Coil Containing Protein Kinase 2 (Rock2) ELISA Kit | Rock2 elisa kit

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CATALOG # AAA140275	REACTIVITY Rat
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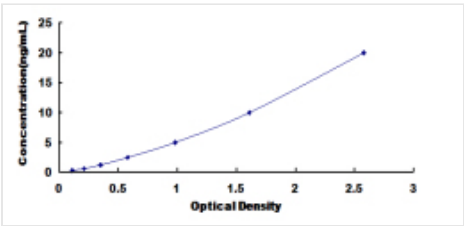
PRODUCT SYNONYMS

Rho Associated Coiled Coil Containing Protein Kinase 2 (Rock2); Rat Rho Associated Coiled Coil Containing Protein Kinase 2 (Rock2) ELISA Kit; Rock2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rock2. No significant cross-reactivity or interference between Rock2 and analogues was observed.
Sequence Length	1,388
Samples	Rat tissue homogenates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	The minimum detectable dose of rat Rock2 is typically less than 0.108ng/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 Rock2 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 Rock2 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 Rock2 in rat tissue homogenates and other biological fluids.
Preparation and Storage	For unopened kit: All the reagents should be kept according to the labels on vials. The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20 degree C upon receipt while the others should be at 4 degree C. For opened kit: When the kit is opened, the remaining reagents still need to be stored according to the above storage condition. Besides, please return the unused wells to the foil pouch containing the desiccant pack, and reseal along entire edge of zip-seal. 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 Rock2 elisa kit	Principle of the assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to Rock2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Rock2. 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 Rock2, 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 Rock2 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 #	41872583
NCBI GeneID	9475
NCBI Accession #	NP_004841.2
NCBI GenBank Nucleotide #	NM_004850.3
UniProt Accession #	O75116; Q53QZ0; Q53SJ7; Q9UQN5
Molecular Weight	160,900 Da
NCBI Official Full Name	rho-associated protein kinase 2
NCBI Official Synonym Full Names	Rho-associated, coiled-coil containing protein kinase 2
NCBI Official Symbol	ROCK2
NCBI Official Synonym Symbols	ROCK-II
NCBI Protein Information	rho-associated protein kinase 2
UniProt Protein Name	Rho-associated protein kinase 2
UniProt Gene Name	ROCK2
UniProt Synonym Gene Names	KIAA0619; ROCK-II
UniProt Entry Name	ROCK2_HUMAN

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.