abcam

Product datasheet

Creatine Kinase Activity Assay Kit (Colorimetric) ab155901

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概述

产品名称	Creatine Kinase Activity Assay试剂盒(Colorimetric)
检测方法	Colorimetric
样品类型	Serum, Plasma, Tissue, Adherent cells, Suspension cells, Tissue Homogenate
检测类型	Enzyme activity
灵敏度	< 1 mU/well
范围	2 nmol/well - 10 nmol/well
检测时间	1h 0m
种属反应性	**与反应:** Mammals, Other species
产品概述	Creatine Kinase Activity Assay Kit (Colorimetric) ab155901 uses a high-throughput adaptable, simple and sensitive assay for creatine kinase (CK) activity. In the creatine kinase assay protocol, creatine kinase (CK) converts creatine into phosphocreatine and ADP. The phosphocreatine and ADP then react with the CK enzyme mix to form an intermediate, which reduces a colorless probe to a colored product with strong absorbance at λ= 450 nm. This assay kit can detect CK activity to less than 1 mU. Creatine kinase assay protocol summary: - add samples and standards to wells - add reaction mix - analyze every 1-2 min for 10-40 min with microplate reader in kinetic mode at 37ºC
说明	This product is manufactured by BioVision, an Abcam company and was previously called K777 Creatine Kinase (CK) Activity Colorimetric Assay Kit. K777-100 is the same size as the 100 test size of ab155901. Creatine Kinase (CK) also known as creatine phosphokinase (CPK) and ATP: creatine N-phosphotransferase is a common cellular enzyme (EC 2.7.3.2). It catalyzes the reversible conversion of creatine and ATP into ADP and phosphocreatine.
平台	Microplate reader

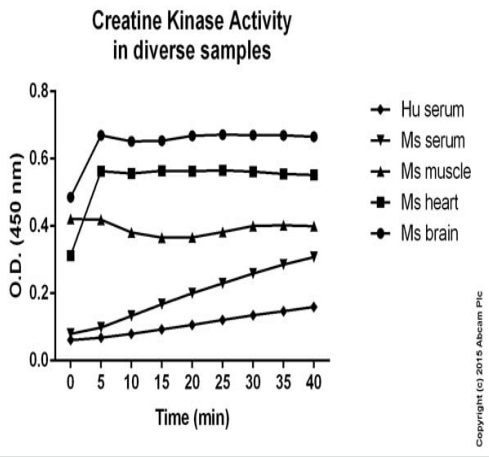
性能

性能

存放说明 Store at -20°C. Please refer to protocols.

组件	100 tests
Active Creatine Kinase	1 vial
Assay Buffer XX	1 x 25ml
ATP I	1 vial
CK Enzyme Mix	1 vial
Creatine	1 x 1ml
Developer Solution III	1 vial
NADH Standard I	1 vial

图片



Functional studies - Creatine Kinase Activity Assay Kit (ab155901)

Creatine Kinase Activity measured in various samples.

Initial protein concentration for tissue lysates varied from 1 mg/mL to 3 mg/mL. 40 µl of filtered tissue lysates were used. 30 µl of filtered biological fluids were used.

Age	WT	Null	Fold increase
2 months	558 +/- 78 (n = 2)	1433 (n = 1)	2.6
3 months	275 (n = 1)	618 +/- 91 (n = 2)	2.2
4 months	237 +/- 118 (n = 2)	1268 (n = 1)	5.4
5 months	62 +/- 11.5 (n = 2)	226 +/- 105 (n = 3)	3.6
7 months	360 +/- 185 (n = 2)	628 +/- 385 (n = 2)	1.7
1 year	206 (n = 1)	307 (n = 1)	1.5

doi:10.1371/journal.pgen.1005340.t001

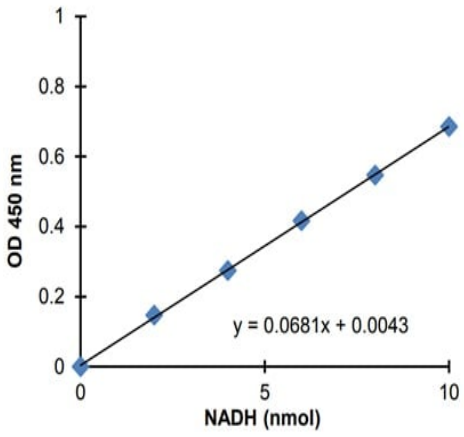
Sengle, Gerhard et al.
PLoS genetics vol. 11,6 e1005340. (2015)

Functional Studies - Creatine Kinase Activity Assay Kit (Colorimetric) (ab155901)

Sengle, Gerhard et al., PLoS genetics?vol. 11,6 e1005340., Table 1, doi:10.1371/journal.pgen.1005340

Creatine kinase activities in blood samples from wildtype and Fbn2 null mice.

Mean +/- standard deviation for a given genotype and age is shown, except where only one animal was tested. N = number of animals tested. Units are nmol NADH/min/ml.



Functional studies - Creatine Kinase Activity Assay Kit

Typical NADH standard calibration curve using colorimetric reading.

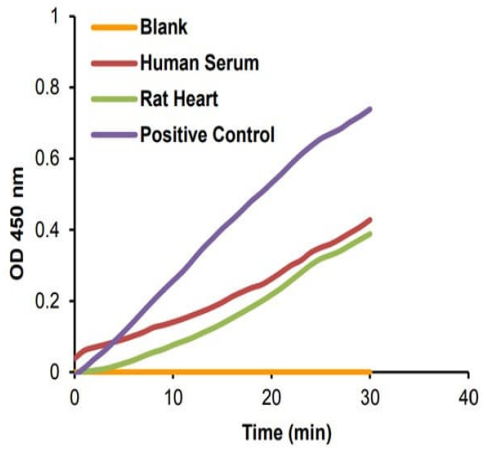


Figure 1

Creatine kinase activity tested in 5 µl human serum and 192 ng rat heart lysate. Assay performed following kit protocol.

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