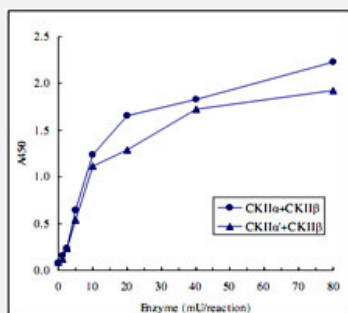


CK2 Kinase (Human) Assay/Inhibitor Screening Assay Kit

Catalog # KA0071

Size 1 Kit

Applications



Dose dependent curve of recombinant CK2 enzyme reaction.

Specification

Product Description

CK2 Kinase (Human) Assay/Inhibitor Screening Assay Kit is a single-site, non-quantitative immunoassay for CK2 activity. Plates are pre-coated with a substrate corresponding to recombinant p53, which contains a serine residue that are phosphorylated by CK2 (Casein kinase II). The detector antibody specifically detects only the phosphorylated form of serine46 on p53.

Assay Type

Quantitative

Reactivity

Human

Regulation Status

For research use only (RUO)

Quality Control Testing

Dose dependent curve
Dose dependent curve of recombinant CK2 enzyme reaction.

Storage Instruction

Store the kit at 4°C.

Applications

- Functional Study

Gene Info — CSNK2A1

Entrez GeneID [1457](#)

Gene Name CSNK2A1

Gene Alias CK2A1, CKII

Gene Description casein kinase 2, alpha 1 polypeptide

Omim ID [115440](#)

Gene Ontology [Hyperlink](#)

Gene Summary Casein kinase II is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. The kinase exists as a tetramer and is composed of an alpha, an alpha-prime, and two beta subunits. The alpha subunits contain the catalytic activity while the beta subunits undergo autophosphorylation. The protein encoded by this gene represents the alpha subunit. While this gene is found on chromosome 20, a related transcribed pseudogene is found on chromosome 11. Three transcript variants encoding two different proteins have been found for this gene. [provided by RefSeq]

Other Designations CK2 catalytic subunit alpha[OTTHUMP00000029925|OTTHUMP00000029926|casein kinase II alpha 1 subunit|casein kinase II alpha subunit|protein kinase CK2]

Publication Reference

- [Protein kinase CK2 modulates apoptosis induced by resveratrol and epigallocatechin-3-gallate in prostate cancer cells.](#)

Ahmad KA, Harris NH, Johnson AD, Lindvall HC, Wang G, Ahmed K.

Molecular Cancer Therapeutics 2007 Mar; 6(3):1006.

Application: Func, Human, ALVA-41 cells

Pathway

- [Adherens junction](#)
- [Tight junction](#)
- [Wnt signaling pathway](#)

Disease

- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)