

## Datasheet: HCA064

<b>Description:</b>	HUMAN ANTI CASEIN KINASE 2 ALPHA 1
<b>Specificity:</b>	CASEIN KINASE 2 ALPHA 1
<b>Other names:</b>	CKII ALPHA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD05928
<b>Isotype:</b>	HuCAL Fab monovalent
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/100 - 1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Product Form

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® GOLD phage display library, expressed in *E. coli*. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied liquid.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.01% Thiomersal

### Approx. Protein Concentrations

IgG concentration 0.5 mg/ml

### Immunogen

Full length recombinant human CK2-alpha1 expressed in Sf9 cells

### External Database

**UniProt:**

**Links**[P68400](#) [Related reagents](#)**Entrez Gene:**[1457](#) CSNK2A1 [Related reagents](#)**Synonyms**

CK2A1

**Specificity**

**Human anti casein kinase 2 alpha 1 antibody, clone AbD05928** recognizes human casein kinase 2 alpha 1. Casein kinase II (CK2) is a heterotetrameric serine/threonine protein kinase consisting of two 44 kDa catalytic subunits (CK2-alpha) and two 26 kDa regulatory subunits (CK2-beta). The alpha subunits contain the catalytic activity while the beta subunits undergo autophosphorylation. CK2 is constitutively expressed in most cells and tissues and is highly conserved among eukaryotes. It participates in a wide variety of cellular processes including protein kinase networks that control cell cycle progression and cellular stress responses with over 300 substrates. Consequently, fluctuations in the expression of CK II have been linked with various human diseases and most notably, certain cancers (breast, prostate, lung etc).

**Western Blotting**

HCA064 detects a band of approximately 44 kDa in HCT-116 cell lysates

**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

12 months from date of despatch

**Acknowledgements**

Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. His-tag is a registered trademark of EMD Biosciences.

**Health And Safety Information**

Material Safety Datasheet documentation #10094 available at:  
10094: <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

**Licensed Use**

For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

**Regulatory**

For research purposes only

**Technical Advice**

Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

## Related Products

### Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...) [HRP](#)Mouse Anti Human C-MYC (MCA2200...) [Alk. Phos.](#), [Biotin](#)Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

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