

DATASHEET

CK2 alpha Rabbit Polyclonal Antibody

CAT. NO. APA09866

KEY FEATURES

Target	CK2 alpha	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Rabbit	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Catalytic subunit of a constitutively active serine/threonine-protein kinase complex that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine . Regulates numerous cellular processes, such as cell cycle progression, apoptosis and transcription, as well as viral infection . May act as a regulatory node which integrates and coordinates numerous signals leading to an appropriate cellular response . During mitosis, functions as a component of the p53/TP53-dependent spindle assembly checkpoint (SAC) that maintains cyclin-B-CDK1 activity and G2 arrest in response to spindle damage . Also required for p53/TP53-mediated apoptosis, phosphorylating 'Ser-392' of p53/TP53 following UV irradiation .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

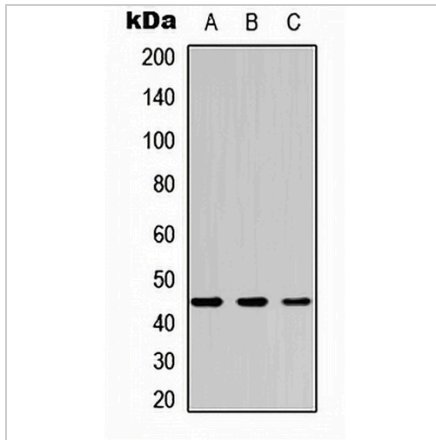
Description	Rabbit polyclonal antibody to CK2 alpha
Specificity	Recognizes endogenous levels of CK2 alpha protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CK2 alpha. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 29; Observed: 45 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	CK2A1; Casein kinase II subunit alpha; CK II alpha
Gene Symbol	CSNK2A1
Entrez Gene	1457(Human); 12995(Mouse); 116549(Rat)
SwissProt	P68400(Human); Q60737(Mouse); P19139(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

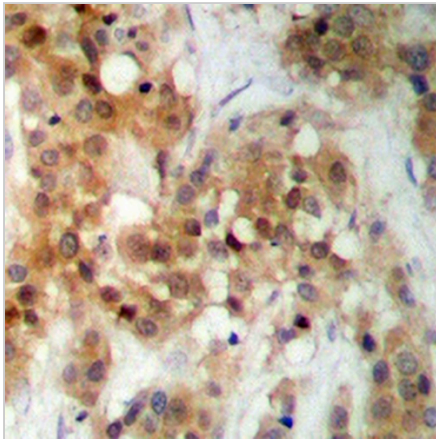
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET**CK2 alpha Rabbit Polyclonal Antibody**

CAT. NO. APA09866

DATA

Western blot analysis of CK2 alpha expression in HEK293T (A), Raw264.7 (B), PC12 (C) whole cell lysates. (Predicted band size: 29; 45 kD; Observed band size: 45 kD)



Immunohistochemical analysis of CK2 alpha staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.