

Tel: 400-999-8863 
 ■ Email:Upingbio.163.com



# Casein Kinase IIa (phospho Tyr255) Polyclonal Antibody

Catalog No         YP-Ab-14385           Isotype         IgG           Reactivity         Human;Mouse;Rat           Applications         WB;HC;IF;ELISA           Gene Name         CSNK2A1           Protein Name         Casein kinase II subunit alpha           Immunogen         The antiserum was produced against synthesized peptide derived from human Casein kinase II alpha around the phosphorylation site of Tyr255. AA range:221-270           Specificity         Phospho-Casein Kinase IIα (Y255) Polyclonal Antibody detects endogenous levels of Casein Kinase IIα protein only when phosphorylated at Y255.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Polyclonal, Rabbit,IgG           Purification         The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000. IF 1:50-200           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         CSNK2A1; CK2A1; Casein kinase II subunit alpha; CK II alpha           Observed Band         45kD           Cell Pathway         Nucleus .           Tissue Specificity         Expressed in gastric carcinoma tissue and the expression gra		
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### UpingBio technology Co.,Ltd

📞 Tel: 400-999-8863 🗷 Email:Upingbio.163.com



## **Background**

Casein kinase II is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. It is involved in various cellular processes, including cell cycle control, apoptosis, and circadian rhythm. 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, Jul 2014],

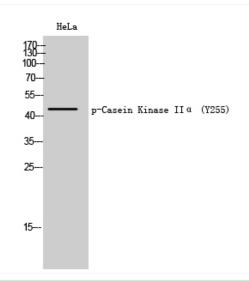
## matters needing attention

Avoid repeated freezing and thawing!

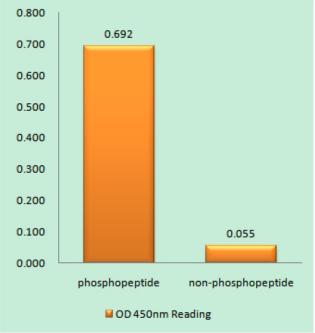
### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## **Products Images**



Western Blot analysis of HeLa cells using Phospho-Casein Kinase IIa (Y255) Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



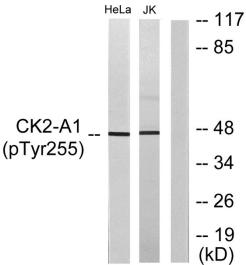
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Casein Kinase II alpha (Phospho-Tyr255) Antibody



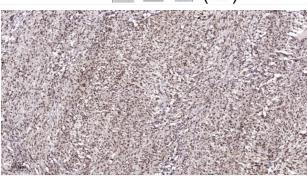
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 ■ Email:Upingbio.163.com





Western blot analysis of lysates from HeLa cells and Jurkat cells, using Casein Kinase II alpha (Phospho-Tyr255) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).