

Summary

Production Name	Casein Kinase I α (phospho Tyr294) Rabbit Polyclonal Antibody		
Description	Rabbit Polyclonal Antibody		
Host	Rabbit		
Application	ELISA,IHC,WB,		
Reactivity	Human, Mouse, Rat		

Performance

Conjugation	Unconjugated		
Modification	Phospho Antibody		
lsotype	IgG		
Clonality	Polyclonal		
Form	Liquid		
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw		
	cycles.		
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.		
Purification	Affinity purification		

Immunogen

Gene Name	CSNK1A1	
Alternative Names	CSNK1A1; Casein kinase I isoform alpha; CKI-alpha; CK1; CSNK1A1L; Casein kinase I	
	isoform alpha-like; CKI-alpha-like; CK1	
Gene ID	1452/122011	
SwissProt ID	P48729/Q8N752.The antiserum was produced against synthesized peptide derived	
	from human CK-1 alpha around the phosphorylation site of Tyr294. AA range:260-309	

Application

Dilution Ratio	WB 1:500 - 1:2000	IHC 1:100 - 1:300. ELISA: 1:10000
Molecular Weight	37kD	



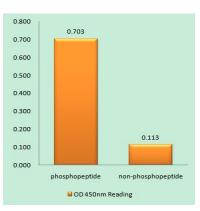
Background

CSNK1A1 (Casein Kinase 1 Alpha 1) is a Protein Coding gene. Among its related pathways are Signaling by GPCR and Infectious disease. GO annotations related to this gene include transferase activity, transferring phosphorus-containing groups and protein tyrosine kinase activity. An important paralog of this gene is CSNK1G2. asein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 at Ser-45. May phosphorylate PER1 and PER2. May play a role in segregating chromosomes during mitosis (PubMed: 11955436, PubMed: 1409656, PubMed: 18305108). May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (PubMed: 23902688). asein kinase I (CK1) is a monomeric serine-threonine protein kinase with 7 isoforms: alpha, beta, gamma1, gamma2, gamma3, delta and epsilon. CK1 is involved in many cellular processes including DNA repair, cell division, nuclear localization and membrane transport. Isoforms are also integral to development. catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 on 'Ser-45', similarity:Belongs to the protein kinase superfamily, similarity:Contains 1 protein kinase superfamily. CK1 Ser/Thr protein kinase family. Casein kinase I subfamily, similarity:Contains 1 protein kinase domain, subunit:Monomer. Interacts with the Axin complex.,

Research Area

WNT;WNT-T CELLHedgehog;

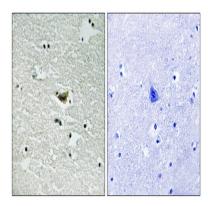
Image Data



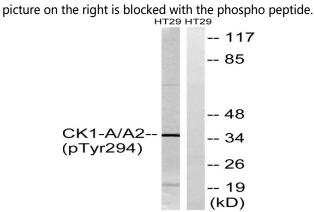
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CK-1 alpha (Phospho-Tyr294) Antibody



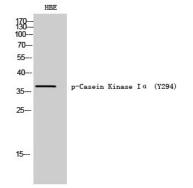
Product Name: Casein Kinase Iα (phospho Tyr294) Rabbit Polyclonal Antibody Catalog #: APRab04363



Immunohistochemistry analysis of paraffin-embedded human brain, using CK-1 alpha (Phospho-Tyr294) Antibody. The



Western blot analysis of lysates from HT29 cells treated with heat shock, using CK-1 alpha (Phospho-Tyr294) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of HBE cells using Phospho-Casein Kinase Ia (Y294) Polyclonal Antibody diluted at 1: 1000

Note

For research use only.