

产品名称: Casein Kinase Iδ Rabbit Polyclonal Antibody
产品货号: APRab07946



产品概述 (Summary)

产品名称 (Production Name)	Casein Kinase Iδ Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CSNK1D
别名 (Alternative Names)	CSNK1D; HCKID; Casein kinase I isoform delta; CKI-delta; CKId; Tau-protein kinase CSNK1D
基因 ID (Gene ID)	1453.0
蛋白 ID (SwissProt ID)	P48730.The antiserum was produced against synthesized peptide derived from human CSNK1D. AA range:291-340

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:20000-1:40000
蛋白分子量 (Molecular Weight)	47kDa

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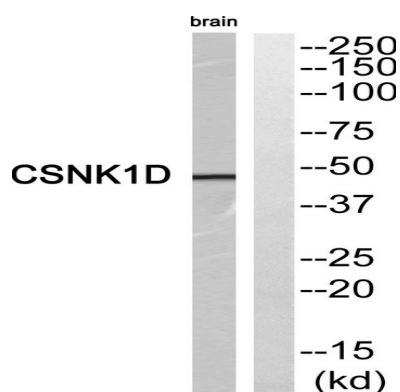
研究背景 (Background)

This gene is a member of the casein kinase I (CKI) gene family whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. The encoded protein may also be involved in the regulation of apoptosis, circadian rhythm, microtubule dynamics, chromosome segregation, and p53-mediated effects on growth. The encoded protein is highly similar to the mouse and rat CK1 delta homologs. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014], catalytic activity: ATP + a protein = ADP + a phosphoprotein., disease: Defects in CSNK1D are a cause of familial advanced sleep-phase syndrome (FASPS) [MIM:604348]. FASPS is characterized by very early sleep onset and offset. Individuals are 'morning larks' with a 4 hours advance of the sleep, temperature and melatonin rhythms., enzyme regulation: Exhibits substrate-dependent heparin activation., 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. Central component of the circadian clock. May act as a negative regulator of circadian rhythmicity by phosphorylating PER1 and PER2. Retains PER1 in the cytoplasm., PTM: Autophosphorylated on serine and threonine residues., similarity: Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. Casein kinase I subfamily., similarity: Contains 1 protein kinase domain., subunit: Monomer. Component of the circadian core oscillator, which includes the CRY proteins, CLOCK, or NPAS2, BMAL1 or BMAL2, CSNK1D and/or CSNK1E, TIMELESS and the PER proteins. Interacts directly with PER1 and PER2 which may lead to their degradation., tissue specificity: Expressed in all tissues examined, including brain, heart, lung, liver, pancreas, kidney, placenta and skeletal muscle. In blood, highly expressed in hemopoietic cells and mature granulocytes. Also found in monocytes and lymphocytes.,

研究领域 (Research Area)

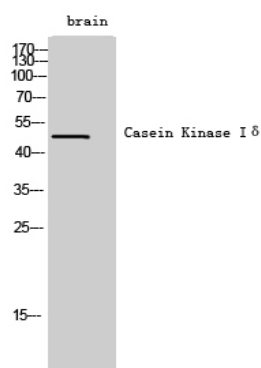
Hedgehog; Gap junction; Circadian rhythm;

图片 (Image Data)



Western blot analysis of CSNK1D Antibody. The lane on the right is blocked with the CSNK1D peptide.

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Western Blot analysis of brain cells using Casein Kinase Iδ Polyclonal Antibody

注意事项 (Note)

For research use only .