

兔抗 PRKAR1A 多克隆抗体

- 中文名称：兔抗 PRKAR1A 多克隆抗体
- 英文名称：Anti-PRKAR1A rabbit polyclonal antibody
- 别名：PRKAR1A; CAR; CNC; CNC1; DKFZp779L0468; MGC17251; PKR1; PPNAD1; PRKAR1; TSE1
- 相关类别：一抗
- 储存：冷冻（-20℃）避光
- 宿主：Rabbit
- 抗原：PRKAR1A
- 反应种属：Human, Mouse, Rat
- 标记物：Unconjugate
- 克隆类型：rabbit polyclonal

技术规格

Background:

The second messenger cyclic AMP (cAMP) activates cAMP-dependent protein kinase (PKA or cAPK) in mammalian cells and controls many cellular mechanisms such as gene transcription, ion transport, and protein phosphorylation. Inactive PKA is a heterotetramer composed of a regulatory subunit (R) dimer and a catalytic subunit (C) dimer. In this inactive state, the pseudosubstrate sequences on the R subunits block the active sites on the C subunits. Three C subunit isoforms (C- α , C- β , and C- γ) and two families of regulatory subunits (RI and RII) with distinct cAMP binding properties have been identified. The two R families exist in two isoforms, α and β (RI- α , RI- β , RII- α , and RII- β). Upon binding of cAMP

	to the R subunits, the autoinhibitory contact is eased and active monomeric C subunits are released. PKA shares substrate specificity with Akt (PKB) and PKC, which are characterized by an arginine at position -3 relative to the phosphorylated serine or threonine residue. Substrates that present this consensus sequence and have been shown to be phosphorylated by PKA are Bad (Ser155), CREB (Ser133), and GSK-3 (GSK-3 α Ser21 and GSK-3 β Ser9). In addition, combined knock-down of PKA C- α and - β blocks cAMP-mediated phosphorylation of Raf (Ser43 and Ser259). Autophosphorylation and phosphorylation by PDK-1 are two known mechanisms responsible for phosphorylation of the C subunit at Thr197.
Applications:	WB
Name of antibody:	PRKAR1A
Immunogen:	Fusion protein of human PRKAR1A
Full name:	protein kinase, cAMP-dependent, regulatory, type I, alpha
Synonyms :	PRKAR1A; CAR; CNC; CNC1; DKFZp779L0468; MGC17251; PKR1; PPNAD1; PRKAR1; TSE1
SwissProt:	P10644
WB Predicted band size:	43 kDa
WB Positive control:	HeLa, CEM, A549, SW480, PC3, V251, HCTnb and heart tissue
WB Recommended dilution:	500-2000

