Datasheet for ABIN968292

anti-PRKACA antibody (AA 18-347)

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Overview

Quantity:	50 µg
Target:	PRKACA
Binding Specificity:	AA 18-347
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRKACA antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human PKA[Calpha] subunit aa. 18-347
Clone:	5B
Isotype:	IgG2b
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	PRKACA
Alternative Name:	PKA C (PRKACA Products)
Background:	CAMP-dependent Protein Kinase (PKA) is composed of two distinct subunits: catalytic (C) and regulatory (R). Four regulatory subunits have been identified: RIalpha, RIbeta, RIIalpha, and RIIbeta. These subunits define type I and II cAMP-dependent protein kinases. Following binding of cAMP, the regulatory subunits dissociate from the catalytic subunits, rendering the enzyme active. Type I and type II holoenzymes have three potential C subunits (Calpha, Cbeta, or Cgamma). Type II PKA can be distinguished by autophosphorylation of the R-subunits, while type I PKA binds Mg/ATP with high affinity. The levels of expression of the different subunits vary according to cell and tissue type.
Molecular Weight:	40 kDa
Pathways:	NF-kappaB Signaling, Hedgehog Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, Carbohydrate Homeostasis, Myometrial Relaxation and Contraction, M Phase, G-protein mediated Events, Signaling Events mediated by VEGFR1 and VEGFR2, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, VEGFR1 Specific Signals, Lipid Metabolism, SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

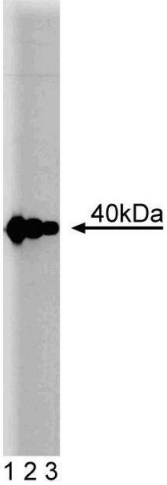
DeSouza, Reiken, Ondrias, Yang, Matkovich, Marks: "Protein kinase A and two phosphatases are components of the inositol 1,4,5-trisphosphate receptor macromolecular signaling complex." in: **The Journal of biological chemistry**, Vol. 277, Issue 42, pp. 39397-400, (2002) (PubMed).

Chen, Yu, Lee, Chiang, Chao, Huang, Chiong, Huang, Lai, Yang-Yen, Yen: "CREB is one component of the binding complex of the Ces-2/E2A-HLF binding element and is an integral part of the interleukin-3 survival signal." in: **Molecular and cellular biology**, Vol. 21, Issue 14, pp. 4636-46, (2001) (PubMed).

Orellana, Marfella-Scivittaro: "Distinctive cyclic AMP-dependent protein kinase subunit localization is associated with cyst formation and loss of tubulogenic capacity in Madin-Darby canine kidney cell clones." in: **The Journal of biological chemistry**, Vol. 275, Issue 28, pp. 21233-40, (2000) (PubMed).

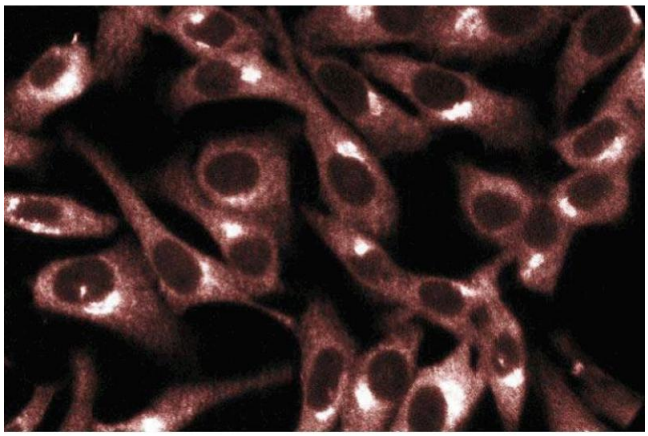
Westphal, Soderling, Alto, Langeberg, Scott: "Scar/WAVE-1, a Wiskott-Aldrich syndrome protein, assembles an actin-associated multi-kinase scaffold." in: **The EMBO journal**, Vol. 19, Issue 17, pp. 4589-600, (2000) (PubMed).

Taylor, Buechler, Yonemoto: "cAMP-dependent protein kinase: framework for a diverse family of regulatory enzymes." in: **Annual review of biochemistry**, Vol. 59, pp. 971-1005, (1990) (PubMed).



Western Blotting

Image 1. Western blot analysis of PKA[C] on HeLa cell lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of antiPKA[C].



Immunofluorescence

Image 2. Immunofluorescent staining of HeLa cells.

