10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-PRKAR1B Antibody

Catalog # AP59670

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P31321
Reactivity	Human, Mouse, Rat, Zebrafish, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43073

Additional Information

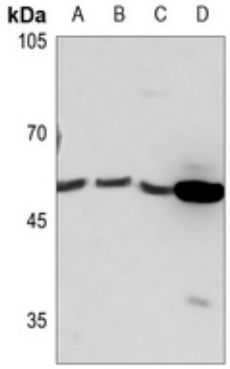
Gene ID	5575
Other Names	cAMP-dependent protein kinase type I-beta regulatory subunit
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PRKAR1B. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

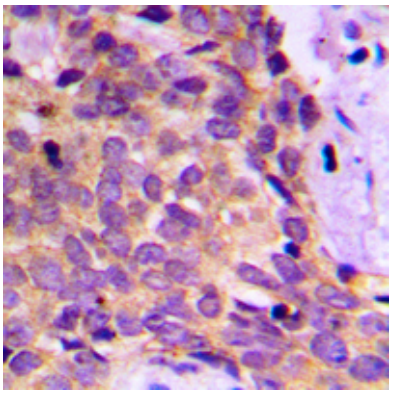
Name	PRKAR1B
Function	Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells.
Cellular Location	Cell membrane
Tissue Location	Four types of regulatory chains are found: I-alpha, I-beta, II-alpha, and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible

Images

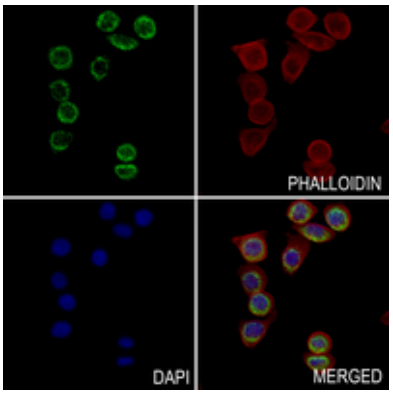
Western blot analysis of PRKAR1B expression in HEK293T



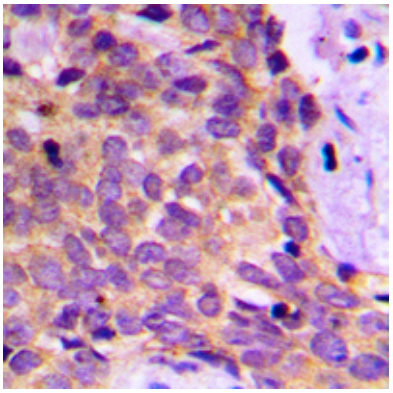
(A), U2OS (B), MCF7 (C), mouse liver (D) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 55 kD)



Immunohistochemical analysis of PRKAR1B staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

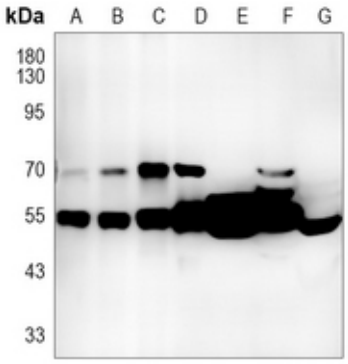


Immunofluorescent analysis of PRKAR1B staining in PCCL cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemical analysis of PRKAR1B staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Western blot analysis of PRKAR1B expression in A2780 (A), MG63 (B), Jurkat (C), mouse brain (D), mouse liver (E), rat brain (F), rat liver (G) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 55 kD)



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.