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Product datasheet for TA502793

PRKAR1B Mouse Monoclonal Antibody [Clone ID: OTI9C5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI9C5
Applications:	FC, IF, WB
Recommend Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PRKAR1B (NP_002726) produced in HEK293T cell.
Formulation:	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.17 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	42.9 kDa
Gene Name:	protein kinase cAMP-dependent type I regulatory subunit beta
Database Link:	NP_002726 Entrez Gene 5575 Human
Background:	Cyclic AMP-dependent protein kinase A (PKA) is an essential enzyme in the signaling pathway of the second messenger cAMP. Through phosphorylation of target proteins, PKA controls many biochemical events in the cell including regulation of metabolism, ion transport, and gene transcription. The PKA holoenzyme is composed of 2 regulatory and 2 catalytic subunits and dissociates from the regulatory subunits upon binding of cAMP. [supplied by OMIM]
Synonyms:	PRKAR1
Protein Families:	Druggable Genome
Protein Pathways:	Apoptosis, Insulin signaling pathway

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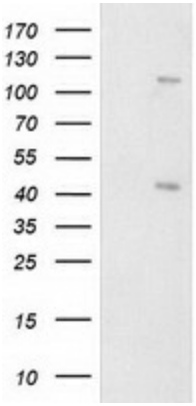
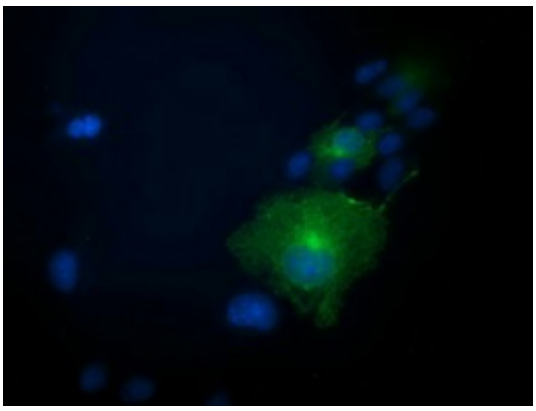
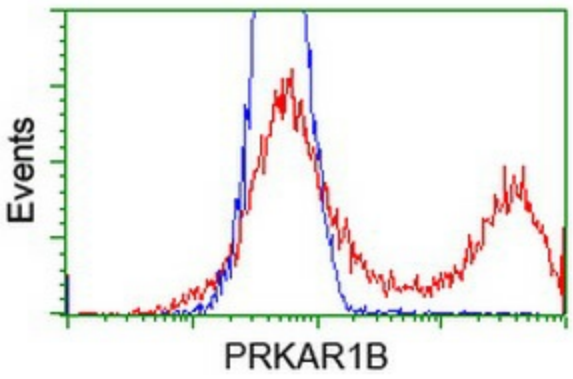
Product images:



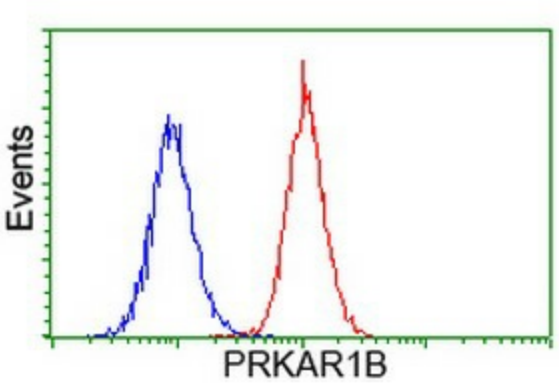
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PRKAR1B ([RC207809], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PRKAR1B. Positive lysates [LY400964] (100ug) and [LC400964] (20ug) can be purchased separately from OriGene.



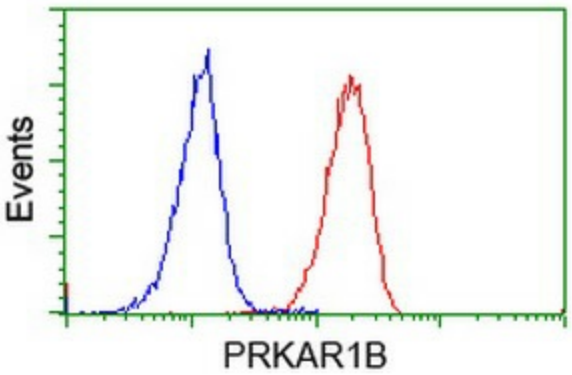
Anti-PRKAR1B mouse monoclonal antibody (TA502793) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PRKAR1B ([RC207809]).



HEK293T cells transfected with either [RC207809] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PRKAR1B antibody (TA502793), and then analyzed by flow cytometry.



Flow cytometric Analysis of Hela cells, using anti-PRKAR1B antibody (TA502793), (Red), compared to a nonspecific negative control antibody ([TA50011]), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-PRKAR1B antibody (TA502793), (Red), compared to a nonspecific negative control antibody ([TA50011]), (Blue).