PKA 2 beta (regulatory subunit) Conjugated Antibody

Catalog No: #C49527

Package Size: #C49527-AF350 100ul #C49527-AF405 100ul #C49527-AF488 100ul #C49527-AF555 100ul #C49527-AF594 100ul #C49527-AF647 100ul #C49527-AF680 100ul #C49527-AF750 100ul #C49527-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	PKA 2 beta (regulatory subunit) Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	AI451071 antibody AW061005 antibody cAMP dependent protein kinase type II beta regulatory chain antibody cAMP dependent protein kinase type II beta regulatory subunit antibody cAMP-dependent protein kinase type II-beta regulatory subunit antibody H RG363E19.2 antibody KAP3_HUMAN antibody MGC116401 antibody Pkarb2 antibody PRKAR 2 antibody PRKAR2 antibody PRKAR2B antibody Protein kinase cAMP dependent regulatory type II beta antibody RATDNA antibody RII beta antibody RII(beta) antibody RIIbeta antibody WUGSC:H RG363E19.2 antibody
Accession No.	Swiss-Prot#:P31323
Uniprot	P31323
GeneID	5577;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	46 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

The second messenger cyclic AMP mediates diverse cellular responses to external signals such as proliferation, ion transport, regulation of metabolism and gene transcription by activation of the cAMP-dependent protein kinase (cAPK or PKA). Activation of PKA occurs when cAMP binds to the two regulatory subunits of the tetrameric PKA holoenzyme resulting in release of active catalytic subunits. One of several regulatory subunits, p-PKA IIβ reg (cAMP-dependent protein kinase type II-beta regulatory subunit), also known as PRKAR2B, is a 418 amino acid protein that is phosphorylated by the activated catalytic chain. p-PKA IIβ reg knockout mice exhibit diminished white adipose tissue and were protected against diet-induced obesity and fatty livers,as well as markedly reduced leptin mRNA. Also playing a role in the immune response, p-PKA IIβ reg suppresses CREB transcriptional activity and down-regulates IL-2 production in T-lymphocytes.

Note: This product is for in vitro research use only