Immunotag™ PKA Iβ reg Polyclonal Antibody

Antibody Specification

Catalog No.	ITT3747
Product Description	Immunotag™ PKA Iβ reg Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PKA Iβ reg
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from PKA Iβ reg, at AA range: 80-160
Specificity	PKA Iβ reg Polyclonal Antibody detects endogenous levels of PKA Iβ reg protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	PRKAR1B
Accession No.	P31321 P12849 P81377
Alternate Names	PRKAR1B; cAMP-dependent protein kinase type I-beta regulatory subunit

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Description	protein kinase cAMP-dependent type I regulatory subunit beta(PRKAR1B) Homo sapiens The protein encoded by this gene is a regulatory subunit of cyclic AMP-dependent protein kinase A (PKA), which is involved in the signaling pathway of the second messenger cAMP. Two regulatory and two catalytic subunits form the PKA holoenzyme, disbands after cAMP binding. The holoenzyme is involved in many cellular events, including ion transport, metabolism, and transcription. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2015],
Cell Pathway/ Category	Apoptosis_Inhibition,Apoptosis_Mitochondrial,Apoptosis_Overview,Insulin_Receptor,
Protein Expression	Amygdala,Brain,Cervix,Pituitary adenoma,Ski
Subcellular Localization	cytosol,plasma membrane,cAMP-dependent protein kinase complex,ciliary base,
Protein Function	PTM:The pseudophosphorylation site binds to the substrate-binding region of the catalytic chain, resulting in the inhibition of its activity.,similarity:Belongs to the cAMP-dependent kinase regulatory chain family.,similarity:Contains 2 cyclic nucleotide-binding domains.,subunit:The inactive form of the enzyme is composed of two regulatory chains and two catalytic chains. Activation by cAMP produces two active catalytic monomers and a regulatory dimer that binds four cAMP molecules.,tissue specificity: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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.