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## anti-PRKAR1B antibody (N-Term)

2 Images



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Alternative Name:

Overview		
Quantity:	0.4 mL	
Target:	PRKAR1B	
Binding Specificity:	N-Term	
Reactivity:	Human, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This PRKAR1B antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)	
Product Details		
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human PRKAR1B.	
Isotype:	Ig Fraction	
Specificity:	This antibody reacts to PKA R1 beta (PRKAR1B).	
Purification:	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS	
Target Details		
Target:	PRKAR1B	

PRKAR1B (PRKAR1B Products)

#### Target Details

Background:	The second messenger cyclic AMP (cAMP) 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. Three catalytic (C) subunits have been identified,	
	designated Ca, C $\beta$ and C $\gamma$ , that each represent specific gene products. Ca and C $\beta$ are closely	
	related (93 % amino acid sequence similarity), whereas C $\gamma$ displays 83 % and 79 % similarity to	
	$\text{C}\alpha$ and $\text{C}\beta\text{, respectively.}$ Activation of transcription upon elevation of cAMP levels results from	
	translocation of PKA to the nucleus where it phosphorylates the transcription factor cAMP	
	response element binding protein (CREB) on serine 133 which in turn leads to TFIIB binding to	
	TATA-box-binding protein TBP1, thus linking phospho-CREB to the pol II transcription initiation	
	complex.Synonyms: PKA regulatory subunit I beta, PRKAR1, cAMP-dependent protein kinase	
	type I-beta regulatory subunit	
Gene ID:	5575, 9606	
UniProt:	P31321	
Pathways:	Hedgehog Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Myometrial	
	Relaxation and Contraction, G-protein mediated Events, Interaction of EGFR with phospholipase	
	C-gamma	
Application Details		
Application Notes:	ELISA: 1/1,000. Western blotting: 1/100 - 1/500. Immunohistochemistry: 1/50 - 1/100.	
	Other applications not tested.	
	Optimal dilutions are dependent on conditions and should be determined by the user.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	0.25 mg/mL	
Buffer:	PBS with 0.09 % (W/V) sodium azide	
Preservative:	Sodium azide	
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	

### Handling

Handling Advice:	Avoid repeated freezing and thawing.	
Storage:	4 °C/-20 °C	
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at-20 °C for longer.	

#### Images

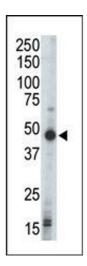


Image 1.

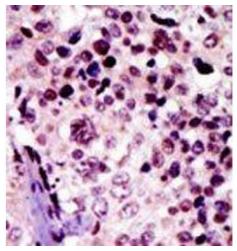


Image 2.