

Rabbit anti-Human, mouse Protein Kinase A regulatory subunit I beta Polyclonal Antibody | anti-PRKAR1B antibody

Protein Kinase A regulatory subunit I beta Antibody (N-term)

CATALOG # AAA284414	HOST Rabbit	REACTIVITY Human, mouse	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
-------------------------------	-----------------------	-----------------------------------	--

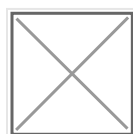
PRODUCT SYNONYMS

Protein Kinase A regulatory subunit I beta; Polyclonal Antibody; Protein Kinase A regulatory subunit I beta Antibody (N-term); cAMP-dependent protein kinase type I-beta regulatory subunit; PRKAR1B; anti-PRKAR1B antibody

PRODUCT SPECIFICATIONS

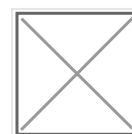
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Protein Kinase A regulatory subunit I beta antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 50-80 amino acids from the N-terminal region of human Protein Kinase A regulatory subunit I beta.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	50-80
Sequence Length	381
Applicable Applications for anti-PRKAR1B antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)

Western blot analysis of anti-PRKAR1B Pab in mouse liver tissue lysate. PRKAR1B (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAR1B antibody	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 C?, C? and C?, that each represent specific gene products. C? and C? are closely related (93% amino acid sequence similarity), whereas C? displays 83% and 79% similarity to C? and C?, 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.
Product Categories/Family for anti-PRKAR1B antibody	Cancer; Cell Biology; Metabolism; Signal transduction
References	Solberg, R., et al., Exp. Cell Res. 214(2):595-605 (1994). Solberg, R., et al., Biochem. Biophys. Res. Commun. 176(1):166-172 (1991).

NCBI AND UNIPROT INFORMATION

NCBI GI #	258613969
NCBI GeneID	5575
NCBI Accession #	NP_001158230.1; NP_001158231.1; NP_001158232.1; NP_001158233.1; NP_001158234.1; NP_002726.1
NCBI GenBank Nucleotide #	NM_001164758.1
UniProt Accession #	P31321; Q8N422
Molecular Weight	43073
NCBI Official Full Name	cAMP-dependent protein kinase type I-beta regulatory subunit
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, regulatory, type I, beta
NCBI Official Symbol	PRKAR1B
NCBI Official Synonym Symbols	PRKAR1
NCBI Protein Information	cAMP-dependent protein kinase type I-beta regulatory subunit
UniProt Protein Name	cAMP-dependent protein kinase type I-beta regulatory subunit
UniProt Gene Name	PRKAR1B
UniProt Entry Name	KAP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/protein-kinase-a-regulatory-subunit-i-beta-antibody-western-blot-immunohistochemistry-elisa/284414>