

Rabbit anti-Human, Mouse PKA alpha/beta CAT Polyclonal Antibody | anti-PKA alpha/beta CAT antibody

PKA alpha/beta CAT (Phospho-Thr197) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA305293	Rabbit	Human, Mouse	Immunofluorescence, Immunohistochemistry, Western Blot

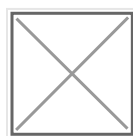
PRODUCT SYNONYMS

PKA alpha/beta CAT; Polyclonal Antibody; PKA alpha/beta CAT (Phospho-Thr197) Antibody; PKA a/b CAT (Phospho-Thr197) Antibody; PRKACA; PRKACB; PKACA; anti-PKA alpha/beta CAT antibody

PRODUCT SPECIFICATIONS

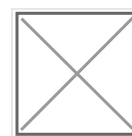
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of PKA a/b CAT only when phosphorylated at threonine 197.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography usi
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	427
Applicable Applications for anti-PKA alpha/beta CAT antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 197(T-W-T(p)-L-C) derived from Human PKA alpha/beta CAT.
Modification	Phospho-Thr197
Target Name	PKA a/b CAT
Preparation and Storage	Store at -20 degree C/1 year

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of methanol-fixed A549 cells using PKA a/b CAT (Phospho-Thr197) Antibody.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using PKA a/b CAT (Phospho-Thr197) antibody (left) or the same antibody preincubated with blocking peptide (right).



WB (Western Blot)

Western blot analysis of extracts from mouse brain cells using PKA a/b CAT (Phospho-Thr197) Antibody. The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PKA alpha/beta CAT antibody	Phosphorylates a large number of substrates in the cytoplasm and the nucleus. Regulates the abundance of compartmentalized pools of its regulatory subunits through phosphorylation of PJA2 which binds and ubiquitinates these subunits, leading to their subsequent proteolysis. Phosphorylates CDC25B, ABL1, NFKB1, CLDN3, PSMC5/RPT6, PJA2, RYR2, RORA and VASP. RORA is activated by phosphorylation. Required for glucose-mediated adipogenic differentiation increase and osteogenic differentiation inhibition from osteoblasts.
Product Categories/Family for anti-PKA alpha/beta CAT antibody	Phospho-specific Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	748585205
NCBI GeneID	5566
NCBI Accession #	NP_001291278.1
NCBI GenBank Nucleotide #	NM_001304349.1
UniProt Accession #	P17612; Q32P54; Q9H2Y0; Q9NRB4; Q9NRH9
Molecular Weight	39,822 Da
NCBI Official Full Name	cAMP-dependent protein kinase catalytic subunit alpha isoform 3
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, catalytic, alpha
NCBI Official Symbol	PRKACA
NCBI Official Synonym Symbols	PKACA; PPNAD4
NCBI Protein Information	cAMP-dependent protein kinase catalytic subunit alpha
UniProt Protein Name	cAMP-dependent protein kinase catalytic subunit alpha
UniProt Gene Name	PRKACA
UniProt Synonym Gene Names	PKACA; PKA C-alpha
UniProt Entry Name	KAPCA_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pka-alpha-beta-cat-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/305293>