Data Sheet (Cat.No.TMAC-03308)

Anti-Phospho-PRKCA (Thr197) Polyclonal Antibody

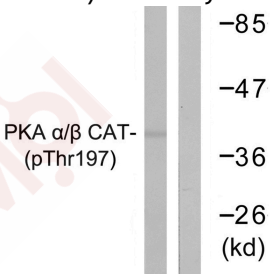
Product Details

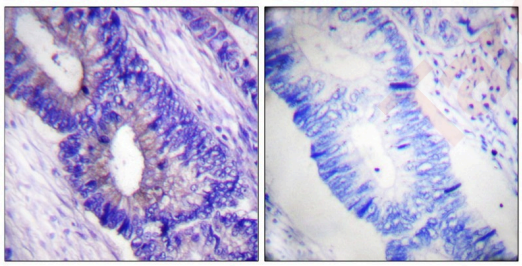
Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Actual: 40 kDa.
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.

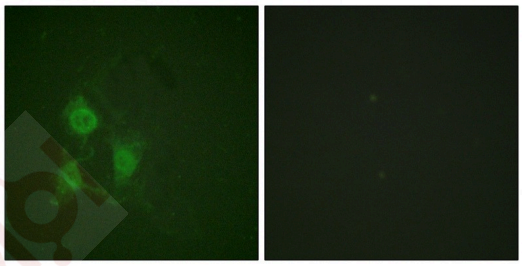
Applications

Verified Activity:

1. Western blot analysis of extracts from mouse brain cells using PKA α/β CAT (Phospho-Thr197) Antibody TMAC-03308.The lane on the right is treated with the antigen-specific peptide.
2. Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using PKA α/β CAT (Phospho-Thr197) antibody TMAC-03308 (left) or the same antibody preincubated with blocking peptide (right).
3. Immunofluorescence staining of methanol-fixed A549 cells using PKA α/β CAT (Phospho-Thr197) Antibody TMAC-03308.







Application:	IF,IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-100; IF: 1:100-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 197(T-W-T(p)-L-C) derived from Human PKA α/β CAT
Antigen Species:	human
Synonyms:	Protein kinase C alpha;PKCA;PRKCB2;KPCA_HUMAN;PRKCB1;PKCG;PKCB;Protein kinase C delta; PKC beta;PKCE;PKC zeta;p-PRKCA (Thr197);PRKCA (p-Thr197);PRKCE;Protein kinase C beta; PKC2;PKC-alpha;PKC epsilon;PRKCZ;p-PRKCA (T197);PKC alpha;PRKCD;PRKCA (p-T197);Protein kinase C;Protein kinase C zeta;PKC-A;PRKCB;PRKCG;PKCD;Protein kinase C gamma;PKC delta; PRKCA;Phospho-PRKCA (T197);Protein kinase C epsilon;PKC gamma

Research Background

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.

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