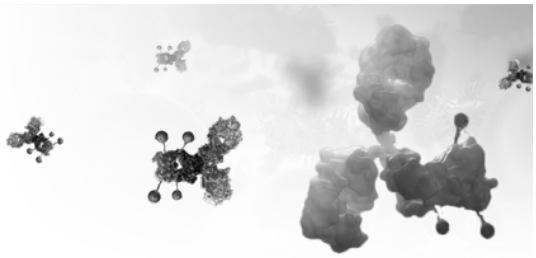

# Rabbit Anti-PRKAR2A monoclonal antibody, clone TD65-15 (CABT-L696)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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|---|---|
| **Target** | Phospho-PKA R2 (S99) |
| **Immunogen** | Recombinant protein |
| **Isotype** | IgG |
| **Source/Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat, Pig |
| **Clone** | TD65-15 |
| **Purification** | Protein A purified. |
| **Conjugate** | Unconjugated |
| **Applications** | WB, ICC/IF, IHC, IP |
| **Molecular Weight** | 51 kDa |
| **Cellular Localization** | Cytoplasm, Cell membrane. |
| **Positive Control** | MCF-7, Hela, human spleen tissue, mouse testis tissue, mouse heart tissue. |
| **Format** | Liquid |
| **Size** | 100 µl |
| **Buffer** | 1×TBS (pH7.4), 1% BSA, 40% Glycerol. |
| **Preservative** | 0.05% Sodium Azide |

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| | |
|---|---|
| **Storage** | Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |

# BACKGROUND

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| **Introduction** | 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 Cα, Cβ and Cγ, that each represent specific gene products. Cα and Cβ are closely related (93% amino acid sequence similarity), whereas Cγ displays 83% and 79% similarity to Cα and Cβ, 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. |
| **Keywords** | cAMP dependent protein kinase regulatory subunit alpha 2;cAMP dependent protein kinase regulatory subunit RII alpha;cAMP dependent protein kinase type II alpha regulatory chain;cAMP dependent protein kinase type II alpha regulatory subunit;cAMP-dependent protein kinase type II-alpha regulatory subunit;KAP2;KAP2_HUMAN;MGC3606;PKR 2;PKR2;PRKA R2;PRKAR 2;PRKAR2;PRKAR2A;Protein kinase A RII alpha subunit;Protein kinase cAMP dependent regulatory type II alpha antibody |

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