bs-55176R **[Primary Antibody]**

PRKAR2A Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5576 **SWISS:** P13861

Target: PRKAR2A

Immunogen: Recombinant human PRKAR2A: 1-404/404.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Store at -20°C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.

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. 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. Mouse Serine 96 (designated Ser 99 in human) is a phosphorylation site on the PKA II?regulatory subunit.

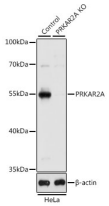
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat

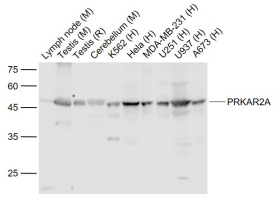
Predicted MW.: 49 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Hela (Human) Cell Lysate at 25 ug Lane 2: PRKAR2A knockout (KO) Hela (Human) Cell Lysate at 25 ug Primary: Anti-PRKAR2A (bs-55176R) at 1/1000 dilution Secondary: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution Predicted band size: 46 kD Observed band size: 46 kD



Sample: Lane 1: Lymph node (Mouse) Lysate at 40 ug Lane 2: Testis (Mouse) Lysate at 40 ug Lane 3: Testis (Rat) Lysate at 40 ug Lane 4: Cerebellum (Mouse) Lysate at 40 ug Lane 5: K562 (Human) Cell Lysate at 30 ug Lane 6: Hela (Human) Cell Lysate at 30 ug Lane 7: MDA-MB-231 (Human) Cell Lysate at 30 ug Lane 8: U251 (Human) Cell Lysate at 30 ug Lane 9: U937 (Human) Cell Lysate at 30 ug Lane 10: A673 (Human) Cell Lysate at 30 ug Primary: Anti-PRKAR2A (bs-55176R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46 kD Observed band size: 46 kD