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# [KO Validated] PKA RIIα (PRKAR2A) Rabbit pAb

**Catalog No.: A1531** KO Validated 1 Publications

## Basic Information

**Observed MW**
46kDa

**Calculated MW**
46kDa

**Category**
Primary antibody

**Applications**
ELISA,WB,IF/ICC

**Cross-Reactivity**
Human, Mouse, Rat

## Background

cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER).

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:1000 - 1:2000 |
| **IF/ICC** | 1:50 - 1:200 |

## Immunogen Information

**Gene ID**
5576

**Swiss Prot**
P13861

**Immunogen**
Recombinant fusion protein containing a sequence corresponding to amino acids 1-404 of human PKA RIIα (PRKAR2A)/PKR2 (NP_004148.1).

**Synonyms**
PKR2; PRKAR2; A)

## Contact


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## Product Information

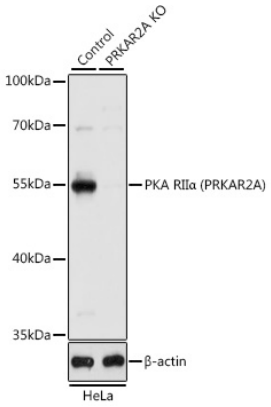
**Source**
Rabbit

**Isotype**
IgG

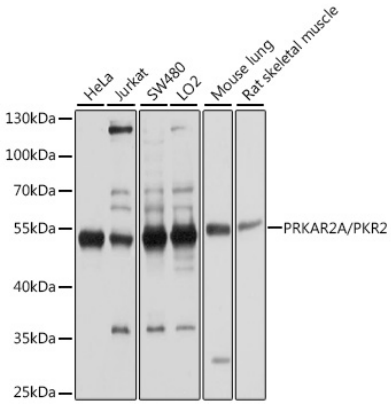
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

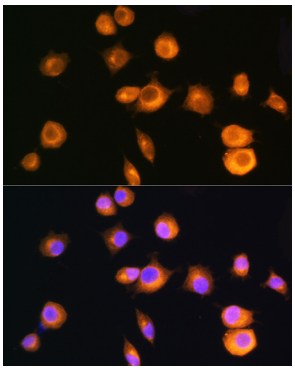
## Validation Data




Western blot analysis of extracts from normal (control) and PKA RIIα (PRKAR2A)/PKR2 knockout (KO) HeLa cells, using PKA RIIα (PRKAR2A)/PKR2 antibody (A1531) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.




Western blot analysis of extracts of various cell lines, using PKA RIIα (PRKAR2A)/PKR2 antibody (A1531) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.



Immunofluorescence analysis of L929 cells using [KO Validated] PKA RIIα (PRKAR2A)/PKR2 Rabbit pAb (A1531) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.