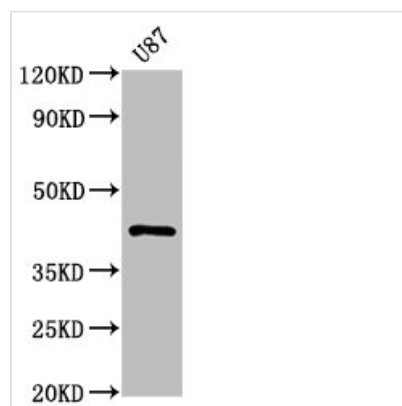




PRKAR1A Antibody

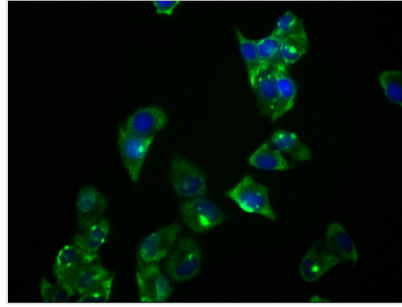
| | |
|----------------------------|--|
| Product Code | CSB-RA018694A0HU |
| Abbreviation | cAMP-dependent protein kinase type I-alpha regulatory subunit |
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P10644 |
| Immunogen | A synthesized peptide derived from human PRKAR1A |
| Species Reactivity | Human |
| Tested Applications | ELISA, WB, IF; Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200 |
| Relevance | Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells. |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Purification Method | Affinity-chromatography |
| Isotype | Rabbit IgG |
| Clonality | Monoclonal |
| Alias | cAMP-dependent protein kinase type I-alpha regulatory subunit, Tissue-specific extinguisher 1, TSE1, PRKAR1A, PKR1, PRKAR1, TSE1 |
| Immunogen Species | Homo sapiens (Human) |
| Research Area | Signal Transduction |
| Gene Names | PRKAR1A |
| Accession NO. | 1C3 |

Image



Western Blot

Positive WB detected in: U87 whole cell lysate
 All lanes: PRKAR1A antibody at 1.1µg/ml
 Secondary
 Goat polyclonal to rabbit IgG at 1/50000 dilution
 Predicted band size: 43, 39 KDa
 Observed band size: 43 KDa



Immunofluorescence staining of HeLa cells with CSB-RA018694A0HU at 1:36, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

The PRKAR1A antibody is a recombinant monoclonal antibody matched isotype control by the rabbit IgG. It is produced through the cloning of the human PRKAR1A DNA gene into the vector and subsequent transfection of the clones into the cell line for in vitro expression. It has undergone affinity-chromatography-mediated purification. This PRKAR1A antibody can react with human PRKAR1A protein. It has been tested for use in ELISA, WB, and IF applications.

PRKAR1A is the type I alpha regulatory subunit (RIalpha) of cAMP-dependent protein kinase (PKA), which regulates most of the serine-threonine kinase activity catalyzed by the PKA holoenzyme in response to cAMP. PRKAR1A mutation has been found in Carney Complex, a schwannoma predisposition syndrome.