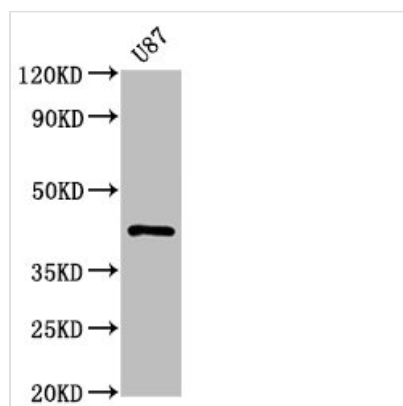




PRKAR1A Recombinant Monoclonal Antibody

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
Clone No.	1C3

Image



Western Blot

Positive WB detected in: U87 whole cell lysate

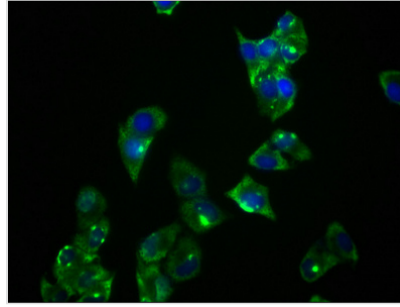
All lanes: PRKAR1A antibody at 1.1µg/ml

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?. 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.