

For Research Use Only

PRKAR2A Monoclonal antibody

Catalog Number: 67751-1-Ig 1 Publications



Basic Information

Catalog Number: 67751-1-Ig	GenBank Accession Number: BC002763	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 5576	CloneNo.: 1B2B3
Source: Mouse	UNIPROT ID: P13861	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:400-1:1600 IF/ICC 1:200-1:800
Isotype: IgG1	Full Name: protein kinase, cAMP-dependent, regulatory, type II, alpha	
Immunogen Catalog Number: AG29893	Calculated MW: 43 kDa	
	Observed MW: 50 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB	WB : U2OS cells, NIH/3T3 cells, HSC-T6 cells, Jurkat cells, HepG2 cells, HeLa cells, LNCaP cells
Species Specificity: Human, rat, mouse	IHC : human colon cancer tissue, mouse colon tissue
Cited Species: human	IF/ICC : HeLa cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

The effects of cAMP in most tissues and cell types are mainly modulated via protein kinase A, a heterotetrameric protein complex consisting of two regulatory and two catalytic subunits. The regulatory subunit of cAMP-dependent protein kinase (PRKAR2A) is one of the regulatory subunits and the gene is located on chromosome region 3p21.3-p21.2. The expression of PRKAR2A is tightly regulated during spermatogenesis, a significant increase in expression of this gene was also found in the human myometrium during pregnancy.

Notable Publications

Author	Pubmed ID	Journal	Application
Ryan D Mouery	39018246	Cell Rep	WB

Storage

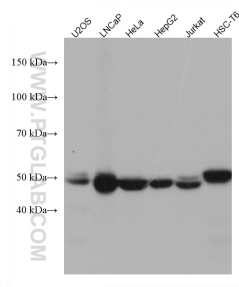
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

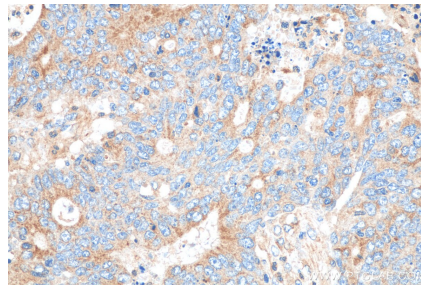
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

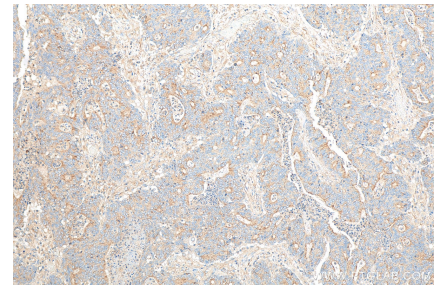
Selected Validation Data



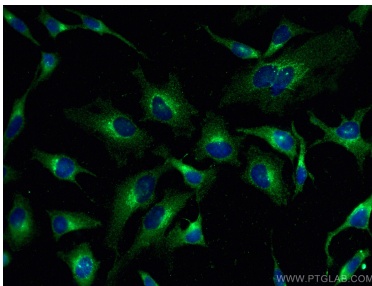
Various lysates were subjected to SDS PAGE followed by western blot with 67751-1-Ig (PRKAR2A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67751-1-Ig (PRKAR2A antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67751-1-Ig (PRKAR2A antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PRKAR2A antibody (67751-1-Ig, Clone: 1B2B3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).