For Research Use Only

PRKAR1A Polyclonal antibody

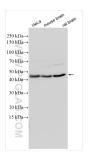
Catalog Number:20358-1-AP 2 Publications



Basic Information	Catalog Number: 20358-1-AP	GenBank Accession Number: BC036285	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):	Recommended Dilutions:	
	1000 ug/ml	5573	WB 1:1000-1:6000	
	Source: Rabbit	UNIPROT ID: P10644	IHC 1:250-1:1000 IF/ICC 1:200-1:800	
	Isotype:	Full Name:		
	lgG	protein kinase, cAMP-depend	ent,	
	Immunogen Catalog Number: AG14216	regulatory, type I, alpha (tissu specific extinguisher 1)	Je	
		Calculated MW: 381 aa, 43 kDa		
		Observed MW: 43-45 kDa		
Applications	Tested Applications:	Positi	Positive Controls:	
			eLa cells, mouse brain tissue, rat brain tissue	
	Cited Applications: WB		IHC : mouse testis tissue, human stomach cancer tissue, mouse brain tissue, rat salivary gland tissue	
	Species Specificity: human, mouse, rat	IF/ICC	: HeLa cells,	
	Cited Species: human, mouse			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
	PKA is a heterotetramer inactive kinase composed of two regulatory and two catalytic submits. The regulatory subunits are encoded by four genes (PRKAR1A, PRKAR2A, PRKAR1B, and PRKAR2B). PRKAR1A, a gene coding for the cAMP-dependent protein kinase (PKA) 1 a regulatory submit, is located on human chromosome 17q22-24. PRKAR1A protein insufficiency and PKA dysregulation have been implicated in various types of disorders, including Albright hereditary osteodystrophy (AHO), pseudohypoparathyroidism (PHP), acrodysostosis (ACRDYS), and Carney complex PRKAR1A protein expression level was significantly dysregulated in multiple primary carcinomas and distant metastases, such as cardiac myxomas, odontogenic myxomas, anaplastic thyroid carcinomas, breast cancer, pediatric pituitary adenomas, and Schwann cell tumors.			
Background Information	cAMP-dependent protein kinase (I protein insufficiency and PKA dys hereditary osteodystrophy (AHO), PRKAR1A protein expression level metastases, such as cardiac myxo	regulation have been implicated i pseudohypoparathyroidism (PHP l was significantly dysregulated i mas, odontogenic myxomas, anap	n various types of disorders, including Albright), acrodysostosis (ACRDYS), and Carney comple: n multiple primary carcinomas and distant	
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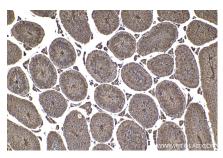
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

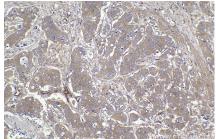


Various lysates were subjected to SDS PAGE followed by western blot with 20358-1-AP (PRKAR1A antibody) at dilution of 1:3000 incubated

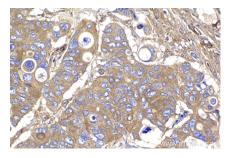
at room temperature for 1.5 hours.



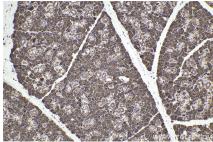
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 20358-1-AP (PRKAR1A antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



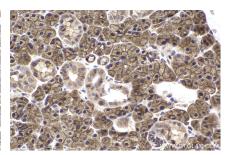
Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 20358-1-AP (PRKAR1A antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



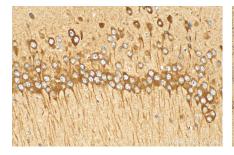
Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 20358-1-AP (PRKAR1A antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded rat salivary gland tissue slide using 20358-1-AP (PRKAR1A antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



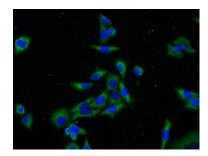
Immunohistochemical analysis of paraffinembedded rat salivary gland tissue slide using 20358-1-AP (PRKAR1A antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



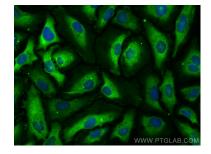
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 20358-1-AP (PRKAR1A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 20358-1-AP (PRKAR1A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20 $^\circ\!C$ Ethanol) fixed HeLa cells using 20358-1-AP (PRKAR1A antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PRKAR1A antibody (20358-1-AP) at dilution of 1:400 and Multi-rAb Coralite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).