For Research Use Only

EPAC1 Polyclonal antibody

Catalog Number:12572-1-AP

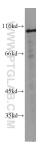


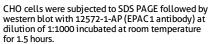
Basic Information	Catalog Number: 12572-1-AP	GenBank Accession Number: BC017728	Purification Method: Antigen affinity purification				
	Size:	GeneID (NCBI):	Recommended Dilutions:				
	150ul , Concentration: 700 µg/ml by Nanodrop and 540 µg/ml by Bradford method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG3240	10411	WB 1:500-1:2000				
		Full Name: Rap guanine nucleotide exchange factor (GEF) 3 Calculated MW:	IHC 1:50-1:500 IF 1:50-1:500				
				881 aa, 99 kDa			
				Observed MW: 99-104 kDa			
		Applications			Tested Applications:	Positive	Controls:
				IF, IHC, WB, ELISA	WB: CHO	WB : CHO cells, mouse brain tissue, rat brain tissue	
				Species Specificity: human, mouse, hamster, rat	IHC : hum	aan stomach cancer tissue,	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			e testis tissue,				
Background Information	EPAC1 functions as a guanine nucleotide exchange factor (GEF), activating small GTPases like Rap1 and Rap2, leading to diverse cellular response. Epac proteins are cAMP sensors that regulate several pivotal cellular processes, including calcium handling, cell proliferation, cell survival, cell differentiation, cell polarization, cell adhesion events, gene transcription, secretion, ion transport, and neuronal signaling. It is a potential target for therapeutic intervention, such as metabolic disorders, cardiovascular diseases (PMID: 20007405, PMID: 20421979). EPAC1 also enhances brown fat growth and beige adipogenesis (PMID: 38195707).						
Storage	Storage: Store at -20°C. Stable for one year after Storage Buffer:						
	PBS with 0.02% sodium azide and 50 ^o Aliquoting is unnecessary for -20°C st						

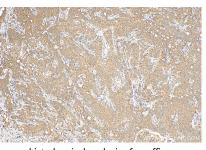
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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

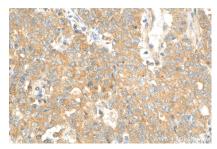
Selected Validation Data



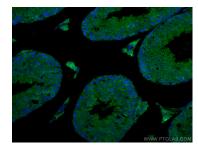




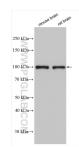
Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 12572-1-AP (EPAC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 12572-1-AP (EPAC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using 12572-1-AP (EPAC1 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 12572-1-AP (EPAC1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.