

For Research Use Only

# CRTAC1 Polyclonal antibody

Catalog Number: 30251-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 30251-1-AP	<b>GenBank Accession Number:</b> BC034245	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55118	<b>Recommended Dilutions:</b> WB: 1:500-1:3000 IHC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NQ79	
<b>Isotype:</b> IgG	<b>Full Name:</b> cartilage acidic protein 1	
<b>Immunogen Catalog Number:</b> AG32963	<b>Calculated MW:</b> 661 aa, 71 kDa	
	<b>Observed MW:</b> 71-100 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> human plasma, mouse brain tissue, rat brain tissue
<b>Species Specificity:</b> Human, mouse, rat	<b>IHC :</b> mouse brain tissue, rat brain tissue
<b>Cited Species:</b> rat	

**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

CRTAC1 (Cartilage acidic protein 1) is also named as ASPIC and 68 kDa chondrocyte-expressed protein (CEP-68). Cartilage acidic protein 1 (CRTAC1), a novel human marker which allowed discrimination of human chondrocytes from osteoblasts and mesenchymal stem cells (PMID: 17074475). CRTAC1 is a glycosylated calcium-binding extracellular matrix protein (PMID: 37796703). CRTAC1 acquired an alternate last exon from the tail-to-tail oriented neighbouring gene in humans resulting in the glycosylated isoform CRTAC1-A which represents a new extracellular matrix molecule of articular cartilage (PMID: 17074475). CRTAC1 was downregulated in bladder cancer tissues and cells (PMID: 34818994).

## Notable Publications

Author	Pubmed ID	Journal	Application
Nariaki Fujimoto	40076501	Int J Mol Sci	WB

## Storage

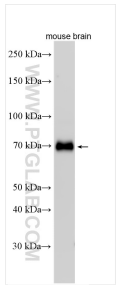
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

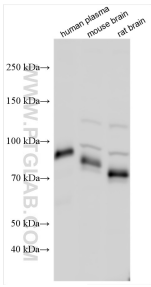
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

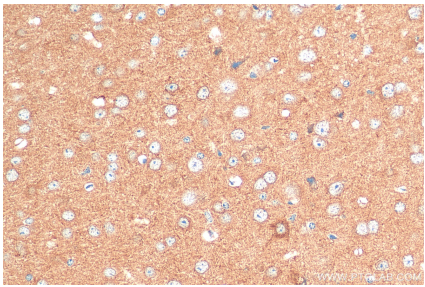
## Selected Validation Data



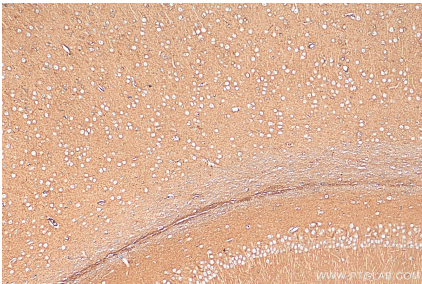
Various lysates were subjected to SDS PAGE followed by western blot with 30251-1-AP (CRTAC1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 30251-1-AP (CRTAC1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 30251-1-AP (CRTAC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 30251-1-AP (CRTAC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).