

For Research Use Only

CRTAC1 Polyclonal antibody

Catalog Number: 30251-1-AP



Basic Information

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

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Species Specificity: Human, mouse, rat	WB: human plasma, mouse brain tissue, rat brain tissue
Note-IHC: <i>suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</i>	IHC: mouse brain tissue, rat brain tissue

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).

Storage

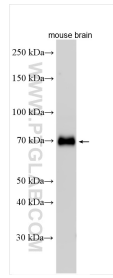
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

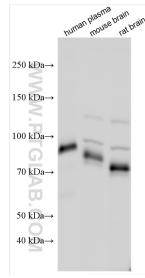
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

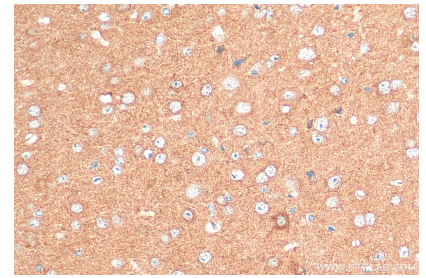
Selected Validation Data



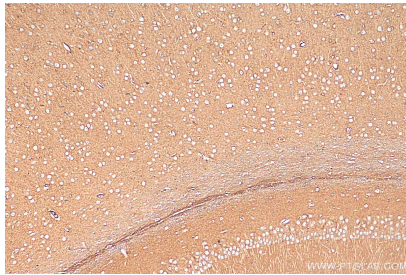
Various lysates were subjected to SDS PAGE followed by western blot with 30251-1-AP (CRTAC1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).