

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: 600 µg/ml	GeneID (NCBI): 55118	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9NQ79	
Isotype: IgG	Full Name: cartilage acidic protein 1	
Immunogen Catalog Number: AG32963	Calculated MW: 661 aa, 71 kDa	
	Observed MW: 71-100 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human plasma, mouse brain tissue, rat brain tissue

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

For technical support and original validation data for this product please contact:

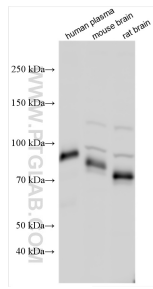
T: 4006900926

E: Proteintech-CN@ptglab.com

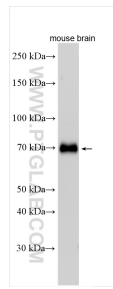
W: ptgcn.com

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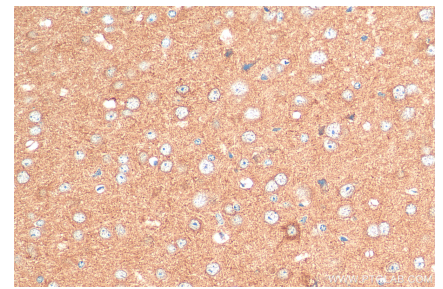
Selected Validation Data



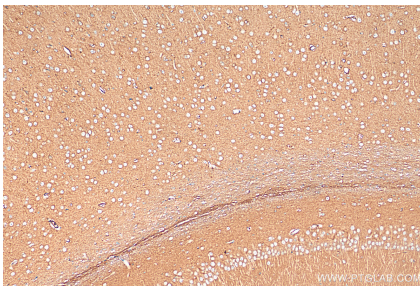
Various lysates were subjected to SDS PAGE followed by western blot with 30251-1-AP (CRTAC1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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.



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).