

For Research Use Only

# TAC1 Polyclonal antibody, PBS Only

Catalog Number: 28599-1-PBS



## Basic Information

<b>Catalog Number:</b> 28599-1-PBS	<b>GenBank Accession Number:</b> BC018047	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6863	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P20366	
<b>Isotype:</b> IgG	<b>Full Name:</b> tachykinin, precursor 1	
<b>Immunogen Catalog Number:</b> AG23477	<b>Calculated MW:</b> 129 aa, 15 kDa	

## Applications

**Tested Applications:**  
IHC, IF/ICC, IF-P, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

TAC1, also known as Protachykinin-1, is a gene that encodes for a family of neuropeptides known as tachykinins. These peptides are characterized by their ability to rapidly stimulate contraction of intestinal muscle, hence the name "tachykinins". The TAC1 gene and its products are widely distributed in the nervous system, with  $\alpha$ -TAC1 mRNA localized in numerous neurons of the brain.  $\beta$ -TAC1 and  $\gamma$ -TAC1 are predominantly expressed in intrinsic enteric neurons and sensory neurons. Additionally, the expression of TAC1, SP, and NKA is observed in various peripheral neurons and non-neural tissues such as the salivary gland, heart, skin, spleen, adrenal gland, and more.

## Storage

**Storage:**  
Store at  $-80^{\circ}\text{C}$ .  
**Storage Buffer:**  
PBS Only

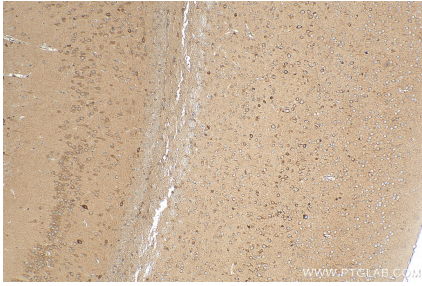
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

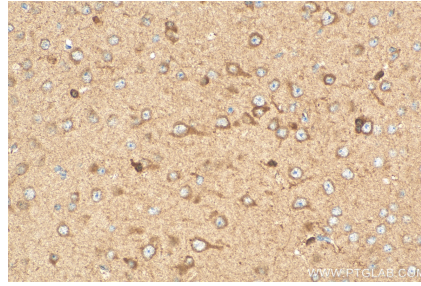
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

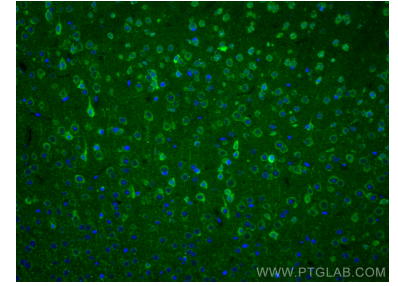
## Selected Validation Data



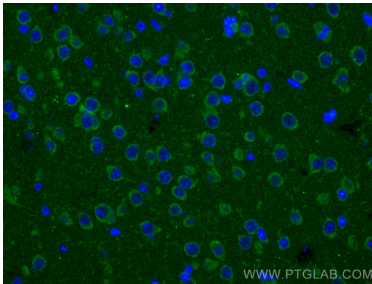
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28599-1-AP (TAC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 28599-1-PBS in a different storage buffer formulation.



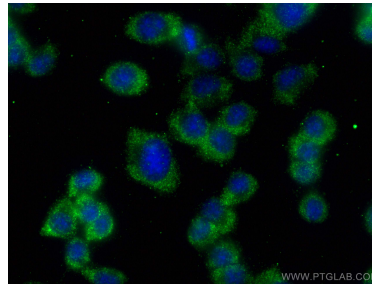
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28599-1-AP (TAC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 28599-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using TAC1 antibody (28599-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 28599-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using TAC1 antibody (28599-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 28599-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using TAC1 antibody (28599-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 28599-1-PBS in a different storage buffer formulation.