

# TAC1 Polyclonal antibody

Catalog Number: 28599-1-AP

## Basic Information

<b>Catalog Number:</b> 28599-1-AP	<b>GenBank Accession Number:</b> BC018047	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 650 ug/ml	<b>GeneID (NCBI):</b> 6863	<b>Recommended Dilutions:</b> IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P20366	IF-P 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> tachykinin, precursor 1	IF/ICC 1:50-1:500
<b>Immunogen Catalog Number:</b> AG23477	<b>Calculated MW:</b> 129 aa, 15 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> mouse brain tissue, human hypothalamus tissue
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*)</b> Alternatively, antigen retrieval may be performed with <b>citrate buffer pH 6.0</b>	<b>IF-P :</b> mouse brain tissue,
	<b>IF/ICC :</b> PC-12 cells,

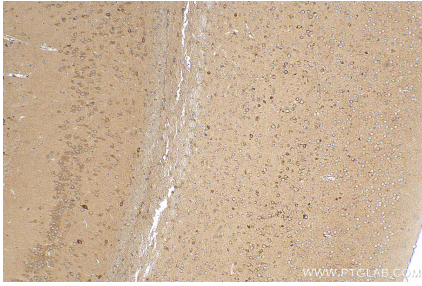
## Background Information

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.

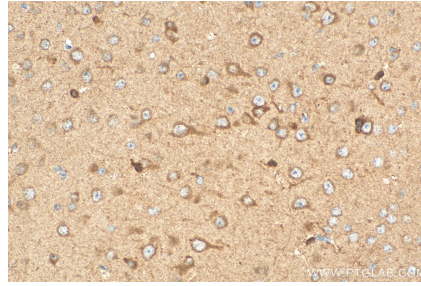
## Storage

**Storage:**  
Store at -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

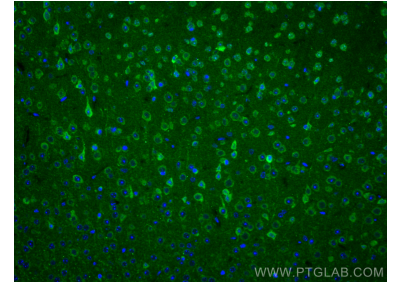
## Selected Validation Data



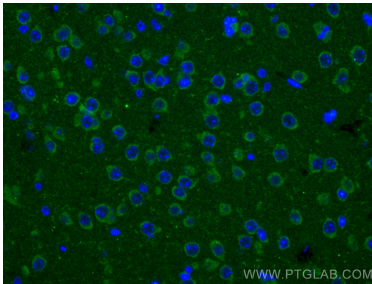
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28599-1-AP (TAC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



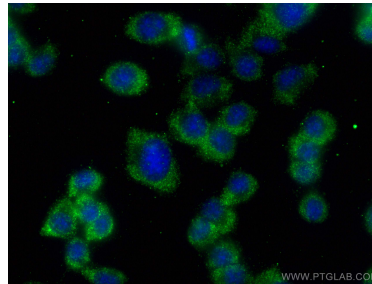
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28599-1-AP (TAC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).



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).