

For Research Use Only

TAC1 Polyclonal antibody

Catalog Number: 28599-1-AP



Basic Information

Catalog Number:

28599-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG23477

GenBank Accession Number:

BC018047

GeneID (NCBI):

6863

UNIPROT ID:

P20366

Full Name:

tachykinin, precursor 1

Calculated MW:

129 aa, 15 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:50-1:500

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

IHC, IF/ICC, IF-P, 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:

IHC : mouse brain tissue, human hypothalamus tissue

IF-P: mouse brain tissue,

IF/ICC : 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 α -TAC1 mRNA localized in numerous neurons of the brain. β -TAC1 and γ -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

*** 20ul sizes contain 0.1% BSA

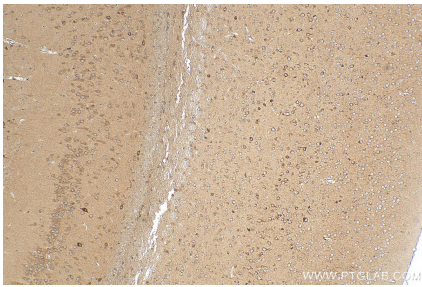
For technical support and original validation data for this product please contact:

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

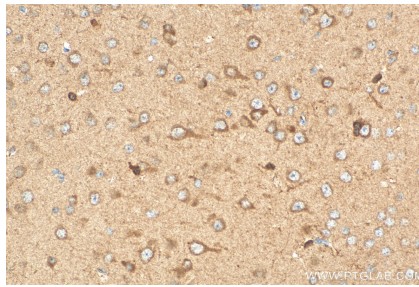
E: proteintech@ptglab.com
W: ptglab.com

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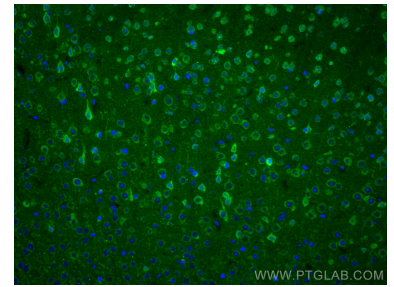
Selected Validation Data



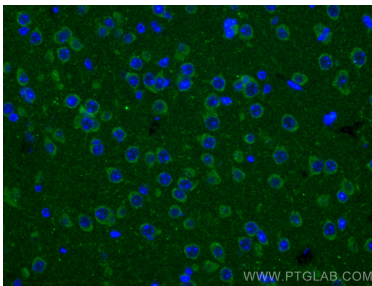
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28599-1-AP (TAC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



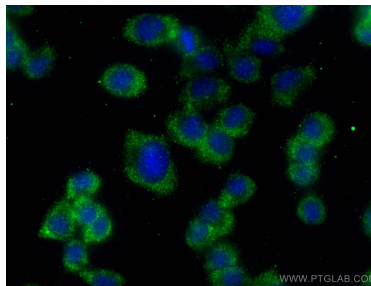
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28599-1-AP (TAC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).