

For Research Use Only

Prothymosin Alpha Polyclonal antibody

Catalog Number: 10480-1-AP



Basic Information

Catalog Number:

10480-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0732

GenBank Accession Number:

BC003510

GeneID (NCBI):

5757

UNIPROT ID:

P06454

Full Name:

prothymosin, alpha

Calculated MW:

12 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:100-1:500

Applications

Tested Applications:

IHC, ELISA

Species Specificity:

human, 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 : human thyroid cancer tissue, human lymphoma tissue, rat colon tissue

Background Information

Prothymosin alpha (PTMA) is a nuclear protein possessing a number of cellular functions including cell survival. PTMA is identified to be localized in the nuclei of neurons, while it is found in both nuclei and cytoplasm in the astrocytes and microglia of adult brain. PTMA inhibits the neuronal necrosis induced by serum-free starvation or ischemia-reperfusion stress, which causes a rapid internalization of GLUT1/4, leading a decrease in glucose uptake and cellular ATP levels. Extensive research on PTMA showed that it is of clinical significance and potential medical use as they may serve as a molecular marker for cancer prognosis and/or as therapeutic agents for treating immunodeficiencies, autoimmune diseases and malignancies.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

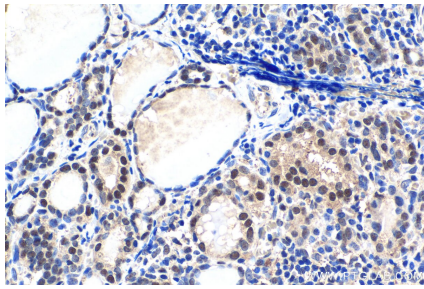
For technical support and original validation data for this product please contact:

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

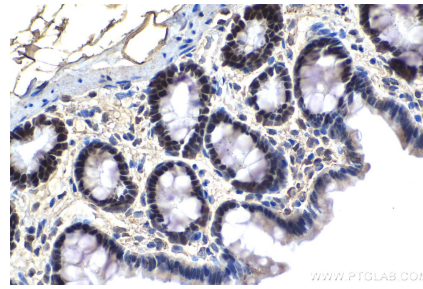
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 10480-1-AP (Prothymosin Alpha antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 10480-1-AP (Prothymosin Alpha antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).