

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 1:20-1:200

## Applications

### Tested Applications:

IHC, ELISA

### Species Specificity:

human

**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 lymphoma 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

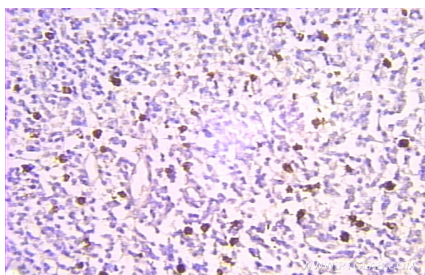
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human lymphoma using 10480-1-AP (Prothymosin alpha antibody) at dilution of 1:100 (under 25x lens).