Antibodies

Data Sheet

HUMAN PROTHYMOSIN α (aa 75-109)

ANTIBODY, POLYCLONAL

Catalog no.: A 9540.1 / A 9540.2

Immunogen: Synthetic human Prothymosin α (aa 75-109) KLH conjugated (GDEDEEAESATGKRAAEDDEDDDVDTKKQKTDEDD)

Swiss-Prot No: P06454

Gene Information: Gene Name: PTMA, TMSA

GeneID: 5757

Host: Rabbit

Matrix: Serum

Specificity: Human Prothymosin α, rat Prothymosin α

There was no cross reactivity obtained with human Thymosin β_4, human Thymulin and human Thymosin α_1.

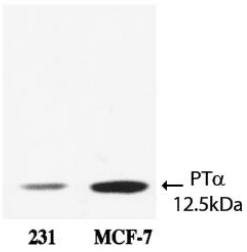


Figure 1: Western Blot analysis of A 9540 specificity. Extracts of 231 and MCF-7 cells were separated by SDS-PAGE and immunoblotted with A 9540 (2µg/ml). A 9540 detects only Prothymosin alpha in cell extracts.

Martini PG et al. (2000) Mol Cell Biol 20(17):6224-32

Contents: 20 µl / 100 µl (lyophilized)

Resuspend in 20 µl / 100 µl aqua bidest.

Known applications: ELISA (1:2000), Western Blot (1:2000; 2 µg/ml IgG fraction)[1, 2, 3], immunohistochemistry (paraffin sections, 1:1000)[3], immunoprecipitation (2 µg/ml IgG fraction)[1]

This antibody has not been tested for use in all applications. This does not necessarily exclude its use for non-tested procedures. The stated dilutions are recommendations only. We suggest that the applicant titrates the antibody in his/her system using appropriate negative/positive controls.

Store at: 2-8 °C (lyophilized);
- 20 °C (dissolved)

Repeated thawing and freezing must be avoided

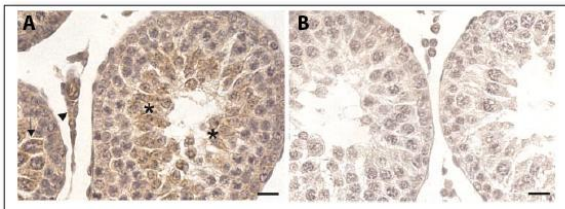
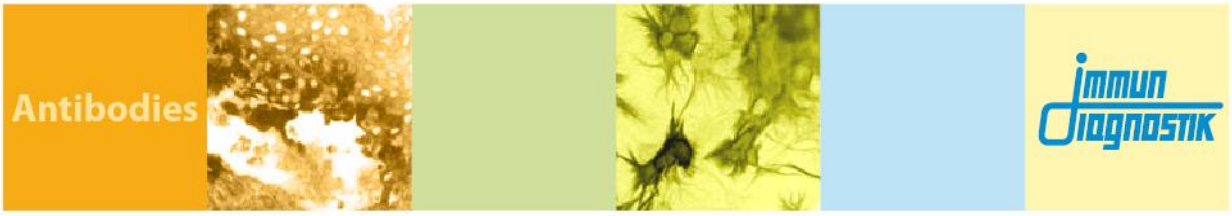


Figure 2: Immunohistochemistry image of Prothymosin α staining in paraffin section of rat testis. The sections were incubated with A 9540 (1:1000) and detected using Avidin-Biotin Complex (ABC) method. DAB was used as the chromogen. The sections were counterstained with hematoxylin. **A.** A 9540 stains Leydig cells (arrowhead), pachytene primary spermatocytes (arrow), and newly formed spermatids (asterisks). **B.** Control section without primary antibody. Scale bar = 20µm.

Ferrara D et al. (2010) J Cell Physiol 224(2):362-8

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Reference:

1. Martini PG, Delage-Mourroux R, Kraichely DM, Katzenellenbogen BS (2000). Prothymosin alpha selectively enhances estrogen receptor transcriptional activity by interacting with a repressor of estrogen receptor activity. *Mol Cell Biol* **20**(17): 6224-6232.

2. Martini PGV, Katzenellenbogen BS (2001). Regulation of Prothymosin {alpha} Gene Expression by Estrogen in Estrogen Receptor-Containing Breast Cancer Cells via Upstream Half-Palindromic Estrogen Response Element Motifs. *Endocrinology* **142**(8)**:** 3493-3501.

3. Ferrara D, Izzo G, Pariante P, Donizetti A, d'Istria M, Aniello F, Minucci S (2010). Expression of prothymosin alpha in meiotic and post-meiotic germ cells during the first wave of rat spermatogenesis. *Journal of Cellular Physiology* **224**(2)**:** 362-368.

Last updated on: 23 July 2016

For research use only

Publishing research using A 9540? Please let us know so that we can cite your publication as a reference.

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