Antibodies

# Data Sheet

# HUMAN THYMOSIN β4 (aa 1-14)

## **ANTIBODY,** POLYCLONAL

**Catalog no.:** A 9520.1 / A 9520.2

**Immunogen:** Synthetic human Thymosin β4 (aa 1-14) KLH conjugated (AcSDKPDMAEIEKFDK)

**Synonyms:** T beta-4, Fx

**Swiss-Prot No:** P62328

**Gene Information:** Gene name: TMSB4X, TB4X, THYB4, TMSB4

GeneID: 7114

**Host:** Rabbit

**Matrix:** Serum

**Specificity:** Human Thymosin β4 (aa 1-14), human and mouse Thymosin β4.

There was no cross reactivity obtained with human Thymosin α1 and human Thymulin, Tb4 (aa 1-4), Tb9, Tb9 (aa 1-14), AcADKP, ADKP, AcGDKP, AcTDKP, AcSPKD, AcVDKP, BSA.

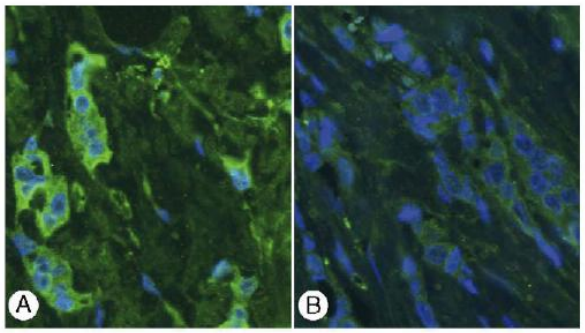



***Figure 1:*** Immunohistochemistry image of Thymosin β4 staining in paraffin sections of breast cancer tissue. Sections were incubated with A 9520 (1:200) for 2h followed by incubation with Alexa-488 goat-anti-rabbit antibody (1:400) (Molecular Probes). The sections were stained for DNA using bisbenzimide. **A.** A 9520 stains scattered tumor cells strongly. **B.** Antiserum preabsorbed with the antigen does not stain the tumor tissue.

*Larsson LI et al. (2007) Hum Pathol 38(1):114-9*

**Contents:** 20 µl / 100 µl (lyophilized)

Resuspend in 20 µl / 100 µl aqua bidest.

**Known applications:** ELISA (1:4000)[1, 2], Western Blot (1:5000)[8], dot blot (1:500), immunohistochemistry (paraffin sections, 1:200; cryosections, 1:100; vibratome sections, 1:8000; whole-mount, 1:100)[3, 4, 5, 6, 7, 8]

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

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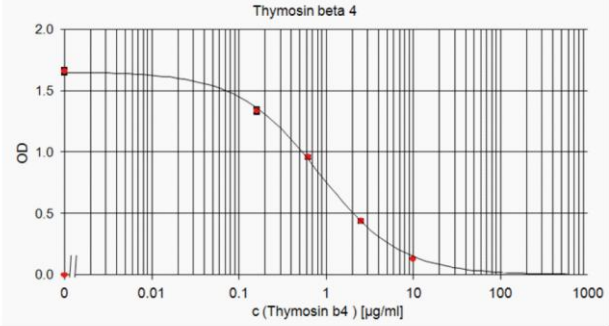



***Figure 2:*** ELISA standard curve showing measurement of Thymosin beta4 in a competitive immunoassay using A 9520. OD was determined at 450 nm. The shown standard curve is for demonstration purposes only and can be influenced by buffer, incubation conditions or dilution of the conjugate.

**References:**

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8. Kim J, Hyun J, Wang S, Lee C, Lee J-W, Moon E-Y, Cha H, Diehl AM & Jung Y (2017). Thymosin beta-4 regulates activation of hepatic stellate cells via hedgehog signaling. *Sci. Rep.* **7:** 3815.

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**For research use only**

**Publishing research using A 9520? Please let us know so that we can cite your publication as a reference.**

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