



BMA BIOMEDICALS



Peninsula Laboratories

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## T-4847

### Rabbit anti Thymosin $\beta$ -4 (human, bovine, horse, rat) [UniProt: P62328, P62326, P62327, P62329]

Thymosins are small proteins isolated from the thymus, but most are now known to be also present in many other tissues. Thymosins have diverse biological activities, and two in particular, thymosins  $\alpha$ 1 and  $\beta$ 4, have potentially important uses in medicine. Thymosin  $\alpha$ -1 is a 28-amino acids peptide fragment derived from prothymosin alpha, a protein that in humans is encoded by the PTMA gene and it is believed to be a major component of Thymosin Fraction 5 responsible for the activity of that preparation in restoring immune function in animals lacking thymus glands. Thymosin  $\beta$ -4 is a 43-amino acids protein that in humans is encoded by the TMSB4X gene. It is a major cellular constituent in many tissues. Its intracellular concentration may reach as high as 0.5 mM. Following Thymosin  $\alpha$ 1,  $\beta$ 4 was the second of the biologically active peptides from Thymosin Fraction 5 to be completely sequenced and synthesized.

This antibody was generated by immunization of rabbits with Thymosin  $\beta$ -4 coupled to a carrier protein.

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#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	121207
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	400 $\mu$ g
<b>Format:</b>	Protein A affinity purified from antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 0.2ml distilled water. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative.
<b>Stability:</b>	Original vial: at least one year at 4 <sup>o</sup> - 8 <sup>o</sup> C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20 <sup>o</sup> C or below.
<b>Applications:</b>	This antibody has been tested and validated in ELISA against Thymosin $\beta$ -4. Other applications like immunohistochemistry (IHC), FACS or Western Blot may work as well. Optimal dilutions should be determined by the end user. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Synthetic peptide Ac-Ser-Asp-Lys-Pro-Asp-Met-Ala-Glu-Ile-Glu-Lys-Phe-Asp-Lys-Ser-Lys-Leu-Lys-Lys-Thr-Glu-Thr-Gln-Glu-Lys-Asn-Pro-Leu-Pro-Ser-Lys-Glu-Thr-Ile-Glu-Gln-Glu-Lys-Gln-Ala-Gly-Glu-Ser-OH coupled to a carrier protein.

**Cross-Reactivity:**

<b>PEPTIDE:</b>	<b>%:</b>
Thymosin b-4 (human, bovine, horse, rat)	100
Thymosin b-10	0
Thymosin a-1	0

**Related Products:**

T-4856: Rabbit antiThymosin  $\alpha$ 1, purified IgG  
T-4848: Rabbit antiThymosin  $\beta$ 4, neat antiserum  
S-1298: ELISA, high sensitivity for extracted samples  
S-1513: ELISA, extraction-free for human samples

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This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

T-4847

rabbit IgG

1.3.2021