

## Product datasheet for **TA364340**

### Thymosin beta 4 (TMSB4X) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	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.
Reactivity:	Human, Bovine, Horse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	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.
Formulation:	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.
Concentration:	N/A
Conjugation:	Unconjugated
Storage:	Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below.
Gene Name:	thymosin beta 4, X-linked
Database Link:	<a href="#">Entrez Gene 7114 Human P62328</a>



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**Background:**

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.

**Synonyms:**

FX; OTTHUMP00000022925; OTTHUMP00000022927; OTTHUMP00000022928; PTMB4; TB4X; THYB4; TMSB4