



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Thymosin β -4

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 α 1 and β 4, have potentially important uses in medicine. Thymosin α -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 β -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 α 1, β 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 β -4 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4847 (Lot 121207)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Human, Bovine, Horse, Rat
Quantity:	400 μ g
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative. Reconstitute by adding 0.2ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
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.
Protein database:	<u>human-P62328</u> , <u>bovine-P62326</u> , <u>horse-P62327</u> , <u>rat-P62329</u>

Cross-Reactivity:

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

Applications:

Tested in ELISA against Thymosin β -4 and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Approximate working dilution for IHC:

Paraffin sections: (1:800); pretreatment with Proteinase K for antigen retrieval is recommended.

Optimal dilutions should be determined by the end user.

Please see www.bma.ch for protocols and general information

Related Products:

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

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.