

Human/Mouse/Rat Thymosin β10 Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6429X 100 µg

DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Thymosin β10 in direct ELISAs. Detects human, mouse, and rat Thymosin β10 in Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) Thymosin β4 and rhThymosin β16 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human Thymosin β10 Ala2-Ser44 Accession # P63313
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Thymosin beta 10 (Tβ10) is a 6.5 kDa member of the β-thymosin family of molecules. Members of this family range from 41-44 amino acids (aa) in length, and possess an isoelectric point that lies between pH 5.0-7.0. Multiple cell types produce Tβ10, either constitutively, or after stimulation. They include monocytes/macrophages, endothelial cells, thyroid epithelium, spermatids, fetal cerebellar Purkinje cells plus renal tubule epithelium, and multiple tumor types. Tβ10 is principally an intracellular molecule. It forms a 1:1 complex with G-actin and blocks F-actin polymerization. This regulates the availability of actin monomers for filament formation and subsequent cell migration. It is also known to be noncanonically secreted, acting on endothelium and blocking angiogenesis. Mature human Tβ10 is 43 aa in length (aa 2-44) (SwissProt #:P63313). It contains an actin-binding site (aa 18-23), an N-terminal acetylated alanine, four acetylated lysines (#4; 15; 26; 39), and one phosphorylation site at Thr23. Mature Tβ10 is identical to mouse Tβ10 in aa sequence, and it shares 74% aa sequence identity with its human family member Tβ4.

PRODUCT SPECIFIC NOTICES

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