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Thymosin beta 4 Rabbit pAb

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Catalog # AP59410

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P62328
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	5053
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Thymosin beta 4
Epitope Specificity	37-44/44
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm, cytoskeleton.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Proteins in the thymosin beta family are highly conserved polar peptides that bind monomeric Actin and thereby inhibit Actin polymerization. These proteins act as the main intracellular G-Actin sequestering peptides. The most abundant thymosin beta family member in mammalian cells and tissues is thymosin beta-4 (Tbeta-4), also designated Seraspenide. T beta-4 participates in several cellular events including cancerogenesis, apoptosis, angiogenesis, blood coagulation and would healing. Specifically, T beta-4 promotes cell migration and adhesion, accelerates wound healing and reduces inflammation, and becomes upregulated in a wide variety of human carcinomas. Due to the effects of T beta-4 in these events, it may become a protein of significant biological and pharmaceutical relevance.

Additional Information

Gene ID	7114
Other Names	Thymosin beta-4, T beta-4, Fx, Hemoregulatory peptide AcSDKP, Ac-Ser-Asp-Lys-Pro, N-acetyl-SDKP, AcSDKP, Seraspenide, TMSB4X, TB4X, THYB4, TMSB4
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

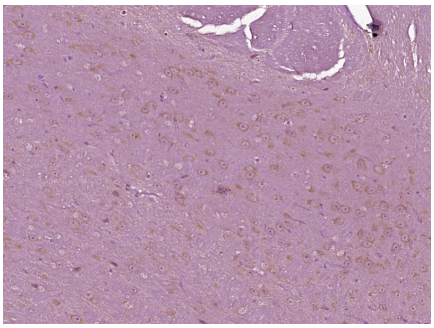
Protein Information

Name	TMSB4X
Synonyms	TB4X, THYB4, TMSB4
Function	Plays an important role in the organization of the cytoskeleton (PubMed:10848969, PubMed:1999398). Binds to and sequesters actin monomers (G actin) and therefore inhibits actin polymerization (PubMed:10848969, PubMed:1999398).
Cellular Location	Cytoplasm, cytoskeleton
Tissue Location	Expressed in several hemopoietic cell lines and lymphoid malignant cells. Decreased levels in myeloma cells

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Thymosin beta 4) Polyclonal Antibody, Unconjugated (AP59410) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.