

Rabbit Anti-Thymosin Alpha-1 antibody

SL0226R

Product Name Thymosin Alpha-1

Chinese Name 胸腺肽 α 1 抗体

Alias Prothymosin alpha (gene sequence 28); Prothymosin alpha; Prothymosin alpha like 1 protein; Thymalfasin; Thymosin alpha 1 acetate; Thymosin alpha 1; Thymosin alpha; TMSA; PTMA; PTMA_HUMAN.

Research Area Tumour immunology Endocrinopathy

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Rat, (predicted: Mouse, Cow,)

Applications ICC/IF=1:50-200 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 12kDa

Cellular localization The nucleus

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human Thymosin Alpha-1: 2-29/111

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

Product The thymus gland produces several hormones or hormone-like substances which are

Detail

derived from a polypeptide precursor containing (in the rat) 113 amino acids and known as prothymosin alpha. A peptide containing 28 amino acid residues, named thymosin alpha 1, was originally isolated from calf thymosin fraction 5 and shown to restore various aspects of immune function in several in vitro and in vivo test systems. Thymosin alpha 1 was subsequently isolated from a similar fraction from human thymosin and reported to have the same amino acid sequence as bovine thymosin alpha 1.

Function:

Prothymosin alpha may mediate immune function by conferring resistance to certain opportunistic infections.

Subcellular Location:

Nucleus.

Post-translational modifications:

Covalently linked to a small RNA of about 20 nucleotides.

Similarity:

Belongs to the pro/parathymosin family.

SWISS:

P06454

Gene ID:

5757

Database links:

[Entrez Gene: 5757](#) Human

[Omim: 188390](#) Human

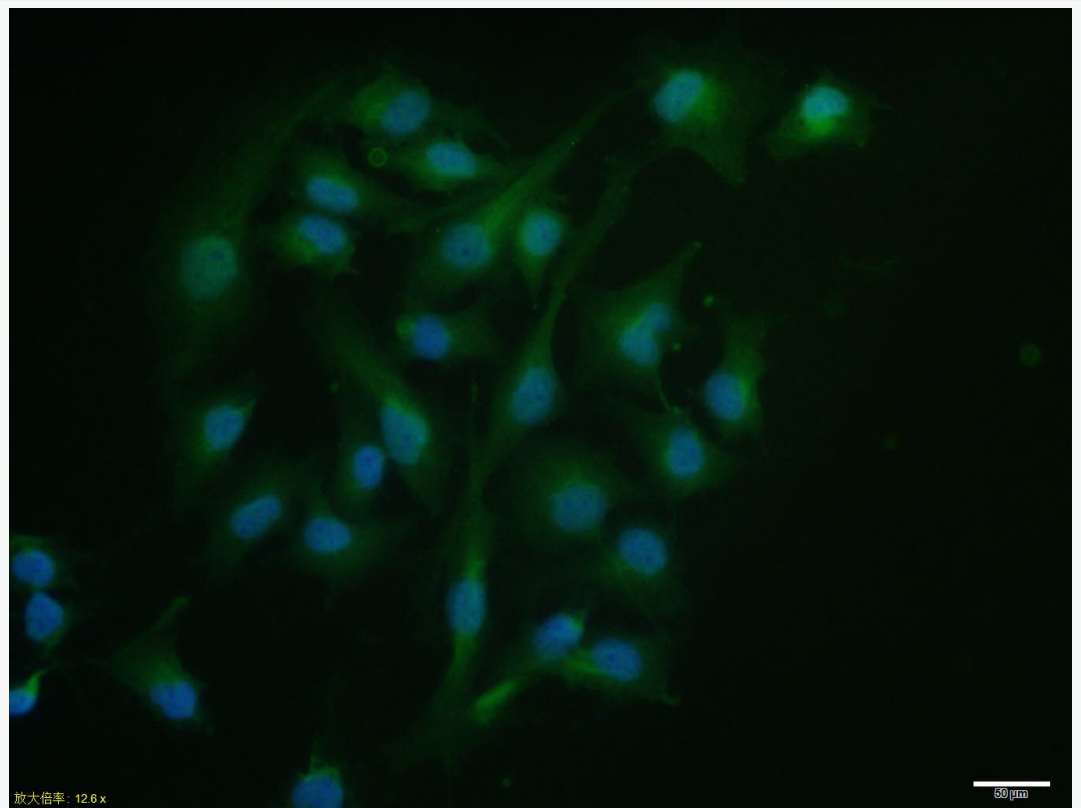
[SwissProt: P06454](#) Human

[Unigene: 459927](#) Human

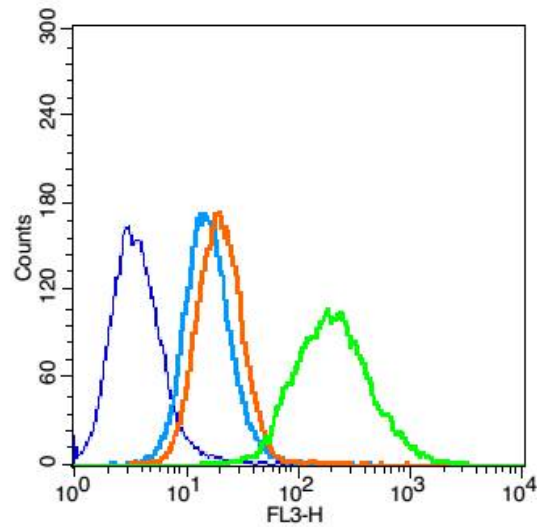
[Unigene: 708083](#) Human

胸腺素 α -1; 胸腺肽

**Product
Picture**



MCF7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Thymosin Alpha-1) polyclonal Antibody, Unconjugated (SL0026R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



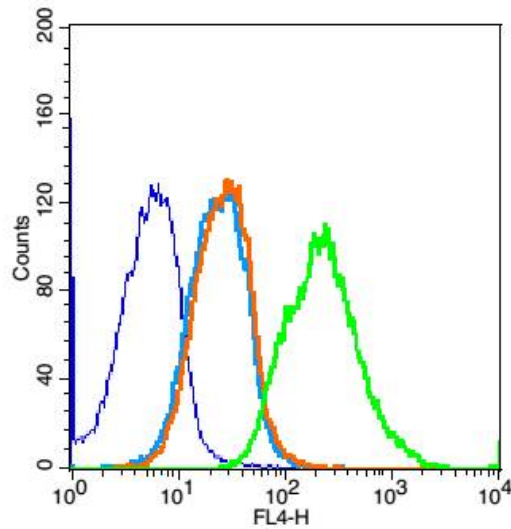
Key	Name	Parameter
—	H9C2-blank.024	FL3-H
—	bs-0295G-PE-Cy5-H9C2-2.025	FL3-H
—	bs-0295P-(PE-Cy5)-H9#1FF421.026	FL3-H
—	bs-0226R-(PE-Cy5)-H9#1FF423.027	FL3-H

Blank control: H9C2

Isotype Control Antibody: Rabbit IgG ; Secondary Antibody: Goat anti-rabbit

IgG-PE-CY5, Dilution: 1:100 in 1 X PBS containing 0.5% BSA ; Primary

Antibody Dilution: 5µl in 100 µL1X PBS containing 0.5% BSA.



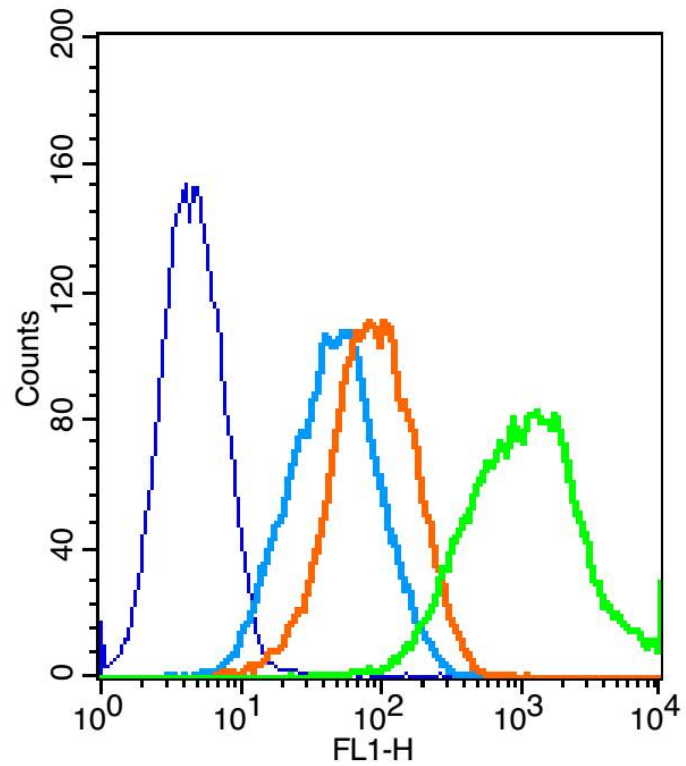
Key	Name	Parameter	Gate
—	RSC96-blank.050	FL4-H	G1
—	bs-0295G-APC-RSC96-2.051	FL4-H	G1
—	bs-0295P-(APC)-RSC96-0.2-2.052	FL4-H	G1
—	bs-0226R-(APC)-RSC96-2-2.053	FL4-H	G1

Blank control: RSC96

Isotype Control Antibody: Rabbit IgG ; Secondary Antibody: Goat anti-rabbit

IgG-APC, Dilution: 1:100 in 1 X PBS containing 0.5% BSA ; Primary Antibody

Dilution: 2 μ l in 100 μ L 1X PBS containing 0.5% BSA.



The blue histogram is unstained cells(293FT cells).

The Wathet Blue histogram is cells stained with secondary antibody alone.

The Orange histogram is cells stained with rabbit IgG isotype control antibody plus secondary antibody.

The green histogram is cells stained withRabbit Anti-Thymosin Alpha-1 antibody (SL0226R) plus secondary antibody. Concentration 1:50