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[Marker Primary Antibody]

Rabbit Anti-TP-5/Thymopentin/Biotin Conjugated antibody

Catalog Number: SL0392R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-TP-5/Thymopentin/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human TP-5/Thymopentin
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1000-10000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat)
Background:	background: Sequence:: H-Arg-Lys-Asp-Val-Tyr-OH MW: 679.8 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. One of the effects of thymopentin is inducing TCell differentiation. It can selectively induce Thy-1- prothymocytes to differentiate intoThy-1+T cells. Its TCell differentiation effect is mediated by an increase in intracellular cAMP levels. Another basic effect of thymopentin is binding to specific receptors on mature

	peripheral blood T cells, causing intracellular cAMP levels to rise, thereby inducing a series of intracellular responses, which is also the basis of its immunomodulatory function. Under normal body conditions, thymopentin shows an immunostimulatory effect, can significantly increase the E-rosette formation rate and transformation rate of spleen lymphocyte, and can enhance different stages of the primary or secondary immune response. It can increase the number of antibody-forming cells of the IgM type and IgG or IgA type. Thymopentin can also enhance the phagocytic function of macrophages, increase the enzyme and phagocytic functions of polymorphonuclear neutrophils, raise circulating antibody levels, and enhance red blood cell immune function. Thymopentin can activate CD4- and CD8-positive cells, maintain the lifespan of specific Tc cells for a longer time, and can also activate Th cells and induce the function of Ts cells. The anti-infective and therapeutic effects of thymopentin are related to its enhancement of TC cell activity. In anti-infective immunity, an appropriate amount of thymopentin can significantly increase the production of Interferon. Induce and promote TCell differentiation and maturation; regulate the proportion of Tlymphocyte subsets to bring CD4/CD8 toward normal; enhance macrophage phagocytic function; enhance red blood cell immune function; improve the activity of Natural killer cells; increase the production level of interleukin-2 and the expression level of its receptor; enhance peripheral blood mononuclear cellsγInterferonproduction； Enhance SOD activity in serum.

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