

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Thymopoietin in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Thymopoietin Pro2-Gln187
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

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

Thymopoietin (TP alpha; also TMPO, LAP2α and TPRPα) is a 75 kDa member of the LEM family of molecules. It is a nucleoplasmic protein that is widely expressed in cells such as keratinocytes and thymocytes. Here, it interacts with A-type lamins and Rb/retinoblastoma protein, thus participating in cell cycle exit. Human thymopoietin is 694 amino acids (aa) in length. It contains a potential N-terminal "thymopoietin peptide" segment (aa #2-49), a BAF-binding LEM domain (aa #109-153), an NLS (aa #190-196), and a coiled-coil region (aa #558-657). Multiple splice variants exist. All contain the same 188 N-terminal amino acids. Five variants show singular 49, 157, 266, 226, and 60 aa substitutions for the C-terminal 506 amino acids. Over aa #2-187, human thymopoietin shares 93% aa identity with mouse thymopoietin.

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