

## Thymopoietin Antibody

*Thymopoietin: TMPO, TP, LAP2, LEMD4, CMD1T*

**CATALOG No.: 6605**

### Background:

Thymopoietin (TMPO), also known as LAP2, is a widely expressed lem-domain-containing nuclear protein that is thought to play an important role in the regulation of nuclear architecture by binding lamin B1 and chromosomes in a manner regulated by phosphorylation during mitosis (1). Thymopoietin associates with nucleoplasmic lamins A/C, which are encoded by the dilated cardiomyopathy (DCM) gene LMNA; mutations in Thymopoietin disrupt this binding, suggesting that Thymopoietin may be a candidate disease gene for DCM (2).

### SOURCE:

Rabbit polyclonal Thymopoietin antibody was raised against a 19 amino acid peptide near the amino terminus of human Thymopoietin (GenBank accession No. NP\_003267).

### STORAGE:

Thymopoietin antibody is supplied as immunoaffinity chromatography purified IgG in PBS containing 0.02% sodium azide. Stable at 4°C for three months, store at -20°C for up to one year.

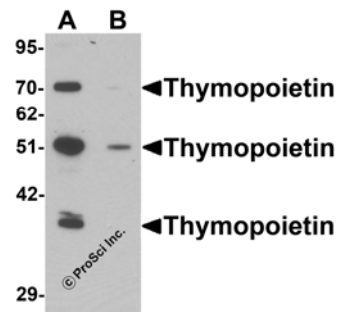
### APPLICATION:

Thymopoietin antibody can be used for detection of Thymopoietin by Western blot at 0.25 – 0.5 µg/ml. (Optimal dilution should be determined by user.) HeLa cell lysate can be used as positive control.

### SPECIFICITY:

Thymopoietin antibody is human and mouse reactive. At least three isoforms of Thymopoietin are known to exist; this antibody will detect all isoforms. Thymopoietin antibody is predicted to not cross-react with other LEM domain-containing proteins.

**For research use only.**



Western blot analysis of Thymopoietin in HeLa cell lysate with Thymopoietin antibody at 0.25 µg/ml in (A) the absence and (B) the presence of blocking peptide.

### RELATED PRODUCTS:

Blocking Peptide, Catalog No. **6605P**

HeLa Cell Lysate, Catalog No. **1201**

LEMMD1 Antibody, Catalog No. **6599**

LEMMD3 Antibody, Catalog No. **6603**

### REFERENCES:

- Harris CA, Andryuk PJ, Cline SW, et al. Structure and mapping of the human thymopoietin (TMPO) gene and relationship of human TMPO beta to rat lamin-associated polypeptide 2. *Genomics* 1995; 28:198-205.
- Taylor MR, Slavov D, Gajewski A, et al. Thymopoietin (lamina-associated polypeptide 2) gene mutation associated with dilated cardiomyopathy. *Hum. Mutat.* 2005; 26:566-74.

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