Datasheet for 600-401-FE1

Thymopoietin Antibody

Overview

Description:	Anti-Thymopoietin (RABBIT) Antibody - 600-401-FE1
Item No.:	600-401-FE1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

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. 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.
Synonyms:	Thymopoietin Antibody, TP, LAP2, CMD1T, LEMD4, PRO0868, Lamina-associated polypeptide 2, isoform alpha, Thymopoietin isoform alpha, TP alpha
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TMPO
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Thymopoietin antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human Thymopoietin.

Purity/Specificity:	Anti-Thymopoietin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. 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.
Relevant Links:	• UniProtKB - P42166 • GeneID - 7112 • NCBI - NP_003267.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Thymopoietin Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 75 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,500
IF:	5 µg/mL
WB:	0.25 µg/mL

Formulation

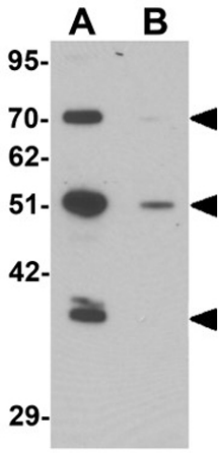
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

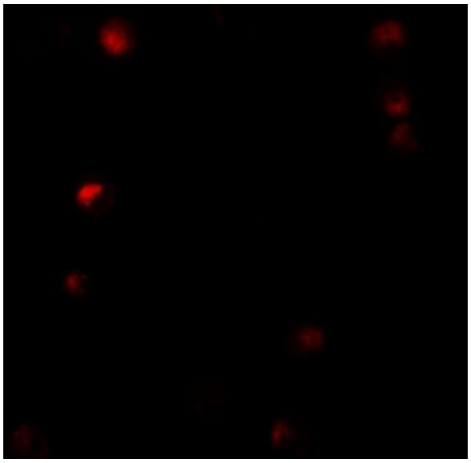
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot analysis of Thymopoietin.
Load: HeLa cell lysate.
Primary Antibody: Thymopoietin antibody at 0.25 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence Microscopy
Immunofluorescence of Thymopoietin.
Tissue: HeLa cells.
Primary Antibody: Thymopoietin antibody at 5 µg/mL.



Immunocytochemistry
Immunocytochemistry of Thymopoietin.
Cell: HeLa cells.
Primary Antibody: Thymopoietin antibody at 2.5 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.