

**TECHNICAL DATA SHEET**

# Recombinant Human APRIL (Carrier-free)

Catalog Number: 21-8124

**RPx-Pro™ Recombinant Protein**  
PRODUCT INFORMATION

**CONTENTS**

Recombinant Human APRIL (Carrier-free)

**DESCRIPTION**

APRIL, an acronym for a proliferation inducing ligand is a TNF superfamily molecule. APRIL is expressed in myeloid cells, monocytes, and macrophages and appears to be involved in tumor cell regulation. It is highly expressed in certain transformed cell lines, certain colon carcinomas, and lymphoid tissues. APRIL enhances tumor cell proliferation. APRIL competes with BAFF for two common receptors, TACI and BCMA, and also binds proteoglycans. Like BAFF, APRIL also appears to have anti-apoptotic effects, enhances B cell and plasma cell survival and maintenance and shares other common effects.

**MOLECULAR MASS**

This recombinant protein is 146 amino acid residues with a molecular weight of 16.3 kDa.

**AMINO ACID SEQUENCE**

AVLTQKQKKKQ HSVLHLPIN ATSKDDSDVT EVMWQPALRR GRGLQAQGYG VRIQDAGVYL LYSQVLFQDV TFTMGQVVSR  
EGGGRQETLF RCIRSMPSHP DRAYNSCYSA GVFHLHQGDI LSVIIPRARA KLNLSPHGTF LGFVKL

**SOURCE**

Hi-5 Insect cells

**APPLICATIONS**

Bioassay

**PURITY**

95 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE

**ENDOTOXIN LEVEL**

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

N/A

**BIOACTIVITY**

Measured by its ability to induce cell death in Jurkat cells.

**RESEARCH AREAS**

Apoptosis; Cancer; Immune System; TNF Superfamily

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

Hahne M, T Kataoka, M Schroter, K Hofmann, M Irmler, J-L Bodmer, P Schneider, T Bornard, N Holler, IS French, B Sordat, D Rimoldi and J Tschopp 1998 JEM 188: 1185-1190. He B, A Chadburn, E Jou, EJ Schattner, DM Knowles and A Cerrutti 2004 J Immunol 172: 3268-3279. Mackay F, P Schneider, P Rennert and J Browning 2003 Ann Rev Immunol 21: 231-264.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.