

TECHNICAL DATA SHEET

Recombinant Mouse APRIL (Carrier-free)

Catalog Number: 21-8127

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Mouse 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

Recombinant Mouse APRIL is a soluble 21.9 kDa protein, consisting of 192 amino acid residues.

AMINO ACID SEQUENCE

MRREVSRLQR SGGPSQKQGE RPWQSLWEQS PDVLEAWKDG AKSRRRRRAVL TQKHKKKHSV LHLVPVNITS KDSDVTEVMW
QPVLRRGRGL EAQGDIVRVW DTGIYLLYSQ VLFHDVTFTM GQVVSREGQG RRETLFRCIR SMPSPDRAY NSCYSAGVFH
LHQGDITVK IPRANAKLSL SPHGTFLLGFV KL

SOURCE

E. Coli

APPLICATIONS

Bioassay

PURITY

98 %

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

Human

BIOACTIVITY

Assessed by induction of activated T cell proliferation.

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 Irmeler, 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.

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