

Recombinant Protein Technical Manual Recombinant Human Histone H4/HIST2H4A Protein RPES5176

Product Data:

Product SKU: RPES5176 **Size:** 20μg

Species: Human Expression host: E. coli

Uniprot: NP 003539.1

Protein Information:

Molecula 11.4 kDa

r Mass:

AP 12 kDa

Molecula r Mass:

Tag:

Bioactivity

:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endoto Please contact us for more information.

xin:

Storage Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted

protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are

stable at < -20°C for 3 months.

Shippin This product is provided as lyophilized powder which is shipped with ice packs.

g:

Formul Lyophilized from sterile 2 mM β-ME in dd H2O, pH 6.0

ation:

Please refer to the printed manual for detailed information.

Recons titution

:

Applica tion:

Synony ms:

FO108;H4;H4/A;H4/B;H4/C;H4/D;H4/E;H4/G;H4/H;H4/J;H4/K;H4/M;H4/N;H4F2;H4FA;H4FB;H

 ${\tt 4FC;H4FD;H4FE;H4FG;H4FH;H4FI;H4FJ;H4FK;H4FM;H4FN;HIST1H4A;HIST1H4B}$

H4/I; HIST1H4C; HIST1H4D; HIST1H4E; HIST1H4F; HIST1H4H; HIST1H4I; HIST1H4J; HIST1H4K; HIST1H4K; HIST1H4F; HIST1H4F

H4L;HIST2H4;HIST2H4A

Immunogen Information:

Sequence: Met 1-Gly103

Background:

Cyclin E1 is a member of the highly conserved cyclin family and belongs to the E-type cyclin that functions as a regulator of S phase entry and progression in mammalian cells. Cyclin E1 serves as regulatory subunits that bind, activate, and provide substrate for its associated cyclin-dependent kinase2 (CDK2), whose activity is essential for cell cycle G1 / S transition. Over expression of this encoding gene has been found in many tumors, which results in chromosome instability and by extension, induce tumorigenesis. This protein was also found to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein mapped to the ATM locus), which participates in cell-cycle regulated histone gene expression and plays a critical role in promoting cell-cycle progression in the absence of pRB. In general, cyclin E1, as an activator of phospho-CDK2 (pCDK2), is important for cell cycle progression and is frequently overexpressed in cancer cells.