

Recombinant Human G1,S-specific cyclin-D1(CCND1)

Catalog No: #AP70131

Package Size: #AP70131-1 20ug #AP70131-2 100ug #AP70131-3 1mg



SAB[®]
Signalway Antibody

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Human G1,S-specific cyclin-D1(CCND1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-295aaSequence Info:Full Length
Other Names	B-cell lymphoma 1 protein ;BCL-1BCL-1 oncogene;PRAD1 oncogene
Accession No.	P24385
Calculated MW	35.88 kDa
Tag Info	N-His
Target Sequence	MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVLPSMRKIVATWMLEVCEEQK CEEEVFPLAMNYLDRFLSLEPVKKSRLQLLGATCMFVASKMKETIPLTAEKLCIYTDNSIRPEELLQMELLVVK LKWNLAAMTPHDFIEHFLSKMPEAEENKQIIRKHAQTFVALCATDVKFISNPPSMVAAGSVVAHVQGLNLRSPN NFLSYRYLTRFLSRVIKCDPDCLRACQEQIEALLESSLRQAQQNMDPKAAEEEEEEEEVDLACTPTDVRDVI
Formulation	Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1%Mannitol.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Images



Background

Regulatory component of the cyclin D1-CDK4 (DC) complex that phosphorylates and inhibits mbers of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G1,S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB,E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G1 phase. Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D1,CDK4,CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with

INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner.

References

A novel cyclin encoded by a bcl1-linked candidate oncogene.Motokura T., Bloom T., Kim H.G., Jueppner H., Ruderman J.V., Kronenberg H.M., Arnold A.Nature 350:512-515(1991)Research Topic:Cell Cycle

Note: This product is for in vitro research use only and is not intended for use in humans or animals.