Product name:	Cables1 Rabbit Polyclonal Antibody
Cat number:	ABN07805
Conjugate:	Unconjugated
Size:	100µL
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human Ik3-1. AA range:561-610
Reactivity:	Human,Mouse
Applications:	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
Molecular Weight:	67kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

Background:

This gene encodes a protein involved in regulation of the cell cycle through interactions with several cyclin-dependent kinases. One study (PMID: 16177568) reported aberrant splicing of transcripts from this gene which results in removal of the cyclin binding domain only in human cancer cells, and reduction in gene expression was shown in colorectal cancers (PMID: 17982127).Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012],developmental stage:Expression in the endometrial epithelium fluctuates during the menstrual cycle, being greater during the secretory phase when compared with the proliferative phase.,disease:Defects in CABLES1 are associated with some colon and squamous cancers.,function:Cyclin-dependent kinase binding protein. Enhances cyclin-dependent kinase tyrosine phosphorylation by nonreceptor tyrosine kinases, such as that of CDK5 by activated ABL1, which leads to increased CDK5 activity and is critical for neuronal development, and that of CDK2 by WEE1, which leads to decreased CDK2 activity and growth inhibition. Positively affects neuronal outgrowth. Plays a role as a regulator for p53/p73-induced cell death.,induction:Up-regulated by progesterone and down-regulated by estrogen in benign endometrium.,PTM:Phosphorylated on Ser-313 by CCNE1/CDK3. Phosphorylated on serine/threonine residues by CDK5 and on tyrosine residues by ABL1. Also phosphorylated in vitro by CCNA1/CDK2, CCNE1/CDK2, CCNA1/CDK3 and CCNE1/CDK3.,similarity:Belongs to the cyclin family.,subcellular location:Located in the cell body and proximal region of the developing axonal shaft of immature neurons. Located in axonal growth cone, but not in the distal part of the axon shaft or in dendritic growth cone of mature neurons.,subunit:Found in a complex with p53/TP53. Found in a number of complexes with CDK2, CDK3, CDK5, ABL1, TDRD7, PCTK2, CCNA1, CCNE1 and TP73. Interacts with CDK2, CDK3, CDK5, ABL1 and TDRD7.,tissue specificity:Expressed in breast, pancreas, colon, head and neck (at protein level). Strongly decreased in more than half of cases of atypical endometrial hyperplasia and in more than 90% of endometrial cancers.,