

Product datasheet for **AP06793PU-M**

CABLES1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 550-600 of Human Cables1.
Specificity:	This antibody detects endogenous levels of Cables1 protein. (region surrounding Lys588)
Formulation:	Phosphate buffered saline (PBS), pH 7.2 with 0.02% Sodium Azide, 50% Glycerol
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 67 kDa
Gene Name:	Cdk5 and Abl enzyme substrate 1
Database Link:	Entrez Gene 91768 Human Q8TDN4



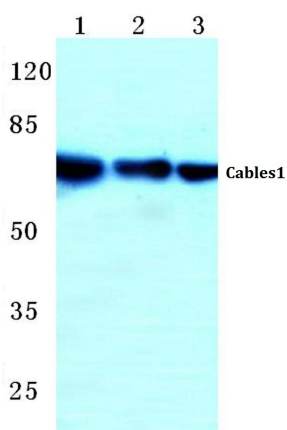
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Background:

Normal Abl function is essential for humans because Philadelphia chromosome translocation involving the ABL gene causes chronic myelogenous leukemia. Abl associates with a broad range of targets and appears to function in various signaling pathways. Cables, a 568 amino-acid protein, links Abl to cyclin-dependent kinase 5 (Cdk5). Cables bound to Cdk5 functions as a substrate for phosphorylation by the Cdk5/p35 kinase. Cables contains an area of weak homology to cyclin A and cyclin C. In addition to its C-terminal Cdk5 binding domain, Cables also has six potential SH3 binding motifs (PXXP) clustered around the amino terminus, two of which are similar to motifs known to bind the Abl SH3 domain. Cables forms a trimolecular complex with Cdk5 and Abl in vivo. All three proteins colocalize within cortical axons, particularly in their growth cones. Cables and Abl may function as adaptor or scaffolding proteins to bind to Cdk5 and control its subcellular location in the neuron.

Synonyms:

Ik3-1

Product images:


Western blot (WB) analysis of Cables1 antibody at 1/500 dilution Lane 1:DLD whole cell lysate Lane 2:Mouse kidney tissue lysate Lane 3:Rat kidney tissue lysate