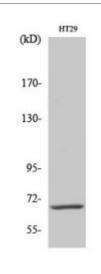


Anti-Cables1 antibody



Description

Rabbit polyclonal to Cables 1.

Model STJ91953

Host Rabbit

Reactivity Human, Mouse

Applications ELISA, IF, IHC, WB

ImmunogenSynthesized peptide derived from human Cables1

Immunogen Region 530-610 aa, C-terminal

Gene ID 91768

Gene Symbol <u>CABLES1</u>

Dilution range WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000

Specificity Cables 1 Polyclonal Antibody detects endogenous levels of Cables 1 protein.

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.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name CDK5 and ABL1 enzyme substrate 1 Interactor with CDK3 1 Ik3-1

Molecular Weight 67 kDa

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:25097OMIM:609194</u>

Alternative Names CDK5 and ABL1 enzyme substrate 1 Interactor with CDK3 1 Ik3-1

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 .

Cellular Localization Nucleus Cytoplasm. 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.

Post-translational Phosphorylated on Ser-313 by CCNE1/CDK3. Phosphorylated on

Modifications 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.

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