



CDK5RAP2 (527CT22.9.2): sc-517321

BACKGROUND

Cyclin dependent kinase 5 (Cdk5) is a key regulator of cell cycle progression in neuronal differentiation that physically associates with and is activated by the neuron-specific protein p35. CDK5RAP1 (CDK5 regulatory subunit-associated protein 1) specifically inhibits Cdk5 activation by p35 through formation of a dimer that inhibits kinase activity. CDK5RAP2, also known as Centrosome-associated protein 215, is a 1,893 amino acid centrosomal protein that regulates activity of CDK5 through complex formation with CDK5RAP1. Expressed in placenta, liver, pancreas, heart, skeletal muscle, lung, brain and kidney, CDK5RAP2 associates with centrosomes throughout the cell cycle. Mutations in the gene encoding CDK5RAP2 results in primary microencephaly autosomal recessive type 3, which is characterized by markedly reduced head size, brain weight and significant neurological deficits. There are four isoforms of CDK5RAP2 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CDK5RAP2 (human) mapping to 9q33.2.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

CDK5RAP2 (527CT22.9.2) is a mouse monoclonal antibody raised against a recombinant protein corresponding to CDK5RAP2 of human origin.

PRODUCT

Each vial contains 50 µl ascites containing IgM with < 0.1% sodium azide.

APPLICATIONS

CDK5RAP2 (527CT22.9.2) is recommended for detection of CDK5RAP2 of human origin by Western Blotting (starting dilution: to be determined by researcher, dilution range 1:100-1:5000).

Suitable for use as control antibody for CDK5RAP2 siRNA (h): sc-72847, CDK5RAP2 shRNA Plasmid (h): sc-72847-SH and CDK5RAP2 shRNA (h) Lentiviral Particles: sc-72847-V.

Molecular Weight of CDK5RAP2: 215 kDa.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.