



# CDK5 Activator-binding C48 Polyclonal Antibody

<b>Catalog No</b>	BYab-01602
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	IHC;IF;ELISA
<b>Gene Name</b>	CDK5RAP2
<b>Protein Name</b>	CDK5 regulatory subunit-associated protein 2
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CDK5RAP2. AA range:251-300
<b>Specificity</b>	CDK5 Activator-binding C48 Polyclonal Antibody detects endogenous levels of CDK5 Activator-binding C48 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	CDK5RAP2; CEP215; KIAA1633; CDK5 regulatory subunit-associated protein 2; CDK5 activator-binding protein C48; Centrosome-associated protein 215
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Golgi apparatus . Cytoplasm . Cytoplasm, cytoskeleton . Found in the pericentriolar region adhering to the surface of the centrosome and in the region of the centrosomal appendages. Localizes to microtubule plus ends in the presence of EB1/MAPRE1. Localization to centrosomes versus Golgi apparatus may be cell type-dependent. For instance, in SK-BR-3 and HEK293F cells, localizes to centrosomes but not to the Golgi apparatus (PubMed:29162697). .
<b>Tissue Specificity</b>	Widely expressed. Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
<b>Function</b>	disease:Defects in CDK5RAP2 are the cause of primary microcephaly autosomal recessive type 3 (MCPH3) [MIM:604804]. Microcephaly is defined as a head circumference more than 3 standard deviations below the age-related mean. Brain weight is markedly reduced and the cerebral cortex is disproportionately small. Despite this marked reduction in size, the gyral pattern is relatively well

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preserved, with no major abnormality in cortical architecture. Primary microcephaly is further defined by the absence of other syndromic features or significant neurological deficits.,function:Potential regulator of CDK5 activity via its interaction with CDK5R1.,miscellaneous:The sequence shown here is derived from an EMBL/GenBank/DDBJ third party annotation (TPA) entry.,PTM:Phosphorylated in vitro by CDK5.,sequence caution:Translated as Gln.,subunit:Interacts with CDK5R1 (p35 form). CDK5RAP1, CDK5RAP2 and CDK

#### Background

This gene encodes a regulator of CDK5 (cyclin-dependent kinase 5) activity. The protein encoded by this gene is localized to the centrosome and Golgi complex, interacts with CDK5R1 and pericentrin (PCNT), plays a role in centriole engagement and microtubule nucleation, and has been linked to primary microcephaly and Alzheimer's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013],

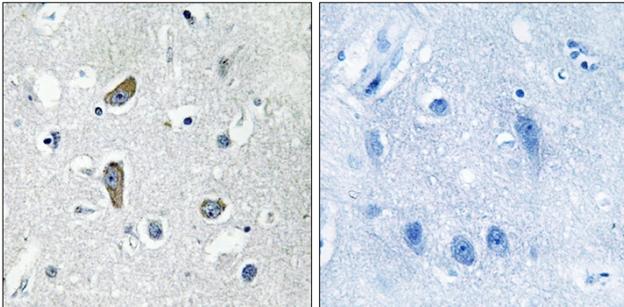
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemistry analysis of paraffin-embedded human brain, using CDK5RAP2 Antibody. The picture on the right is blocked with the synthesized peptide.