



CDK5 Activator-binding C48 Polyclonal Antibody

Catalog No	YP-Ab-01602
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;ELISA
Gene Name	CDK5RAP2
Protein Name	CDK5 regulatory subunit-associated protein 2
Immunogen	The antiserum was produced against synthesized peptide derived from human CDK5RAP2. AA range:251-300
Specificity	CDK5 Activator-binding C48 Polyclonal Antibody detects endogenous levels of CDK5 Activator-binding C48 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CDK5RAP2; CEP215; KIAA1633; CDK5 regulatory subunit-associated protein 2; CDK5 activator-binding protein C48; Centrosome-associated protein 215
Observed Band	
Cell Pathway	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). .
Tissue Specificity	Widely expressed. Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Function	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 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],

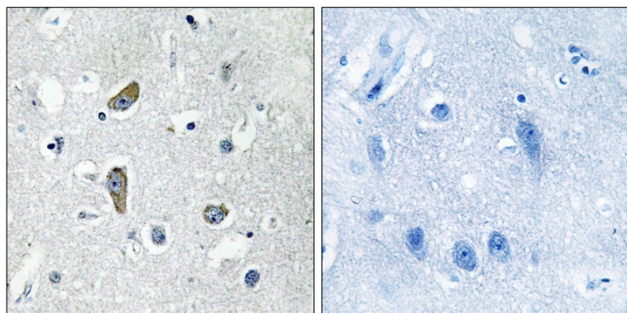
matters needing attention

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.