

CDK5 Activator-binding C48 Rabbit pAb

CatalogNo: YT0837

Key Features

Host Species

- Rabbit

Reactivity

- Human,Rat,Mouse,

Applications

- IHC,IF,ELISA

MW

- 215kD (Calculated)

Isotype

- IgG

Recommended Dilution Ratios

IHC 1:100-1:300**ELISA 1:20000****IF 1:50-200**

Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

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

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human CDK5RAP2. AA range:251-300

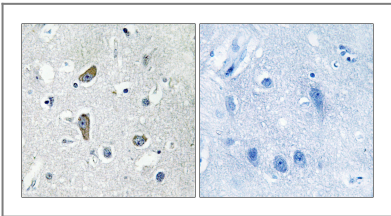
Specificity

CDK5 Activator-binding C48 Polyclonal Antibody detects endogenous levels of CDK5 Activator-binding C48 protein.

Target Information

Gene name	CDK5RAP2		
Protein Name	CDK5 regulatory subunit-associated protein 2		
	Organism	Gene ID	UniProt ID
	Human	55755 ;	Q96SN8 ;
	Mouse		Q8K389 ;
Cellular Localization	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 CDK5RAP3 show competitive binding to CDK5R1. Probably forms a complex with CDK5R1 and CDK5.,tissue specificity:Widely expressed. Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.,		

| Validation Data



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

| Contact information

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**CDK5 Activator-
binding C48 Rabbit
pAb**

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