



CDK5 Activator-binding C42 Polyclonal Antibody

Catalog No	BYab-01601
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;ELISA
Gene Name	CDK5RAP1
Protein Name	CDK5 regulatory subunit-associated protein 1
Immunogen	The antiserum was produced against synthesized peptide derived from human CDK5RAP1. AA range:251-300
Specificity	CDK5 Activator-binding C42 Polyclonal Antibody detects endogenous levels of CDK5 Activator-binding C42 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	CDK5RAP1; C20orf34; CGI-05; HSPC167; CDK5 regulatory subunit-associated protein 1; CDK5 activator-binding protein C42
Observed Band	
Cell Pathway	Mitochondrion .
Tissue Specificity	Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas (PubMed:10721722). Expressed in neurons of central nervous tissue (PubMed:10721722, PubMed:11882646). ; [Isoform 5]: Mainly expressed in brain, placenta and testis.; [Isoform 6]: High expression in placenta and lung.
Function	cofactor:Binds 2 4Fe-4S clusters. One cluster is coordinated with 3 cysteines and an exchangeable S-adenosyl-L-methionine.,function:Specifically inhibits CDK5 activation by CDK5R1.,sequence caution:Translated as Glu.,similarity:Belongs to the methylthiotransferase family. MiaB subfamily.,similarity:Contains 1 MTTase N-terminal domain.,similarity:Contains 1 TRAM domain.,subunit:Interacts with CDK5R1 (p35 form). CDK5RAP1, CDK5RAP2 and CDK5RAP3 show competitive binding to CDK5R1. Forms a complex with CDK5R1 and CDK5.,tissue specificity:Widely expressed. Expressed in heart, brain, placenta, lung, liver,

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skeletal muscle, kidney and pancreas.,

Background

This gene encodes a regulator of cyclin-dependent kinase 5 activity. This protein has also been reported to modify RNA by adding a methylthio-group and may thus have a dual function as an RNA methylthiotransferase and as an inhibitor of cyclin-dependent kinase 5 activity. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, May 2013],

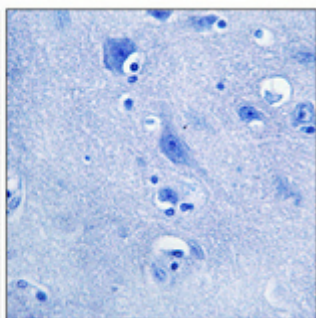
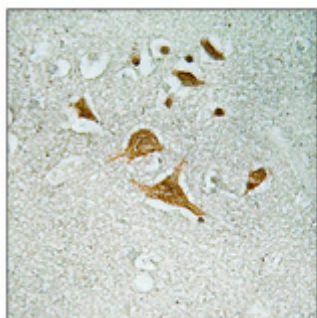
matters needing attention

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



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.