

**CDK5RAP3 Antibody**  
**Affinity-Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50663****Specification**

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**CDK5RAP3 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O96JB5</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>57,46,31 KDa</b>
Antigen Region	<b>350-379</b>

**CDK5RAP3 Antibody - Additional Information****Gene ID** 80279**Other Names**

CDK5 regulatory subunit-associated protein 3, CDK5 activator-binding protein C53, Protein HSF-27, CDK5RAP3, IC53

**Dilution**

WB~~1:500

**Format**Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

**CDK5RAP3 Antibody - Protein Information****Name** CDK5RAP3 ([HGNC:18673](#))**Function**

Substrate adapter for ufmylation, the covalent attachment of the ubiquitin-like modifier UFM1 to substrate proteins, in response to endoplasmic reticulum stress (PubMed: <a href="http://www.uniprot.org/citations/23152784" target="\_blank">23152784</a>, PubMed: <a href="http://www.uniprot.org/citations/30635284" target="\_blank">30635284</a>). Negatively regulates NF-kappa-B-mediated gene transcription through the control of RELA phosphorylation (PubMed: <a href="http://www.uniprot.org/citations/17785205" target="\_blank">17785205</a>, PubMed: <a href="http://www.uniprot.org/citations/20228063" target="\_blank">20228063</a>). Probable tumor suppressor initially identified as a CDK5R1 interactor controlling cell proliferation (PubMed: <a href="http://www.uniprot.org/citations/12054757" target="\_blank">12054757</a>, PubMed: <a href="http://www.uniprot.org/citations/12737517" target="\_blank">12737517</a>). Also regulates mitotic G2/M transition checkpoint and mitotic G2 DNA damage checkpoint

(PubMed:<a href="http://www.uniprot.org/citations/15790566" target="\_blank">15790566</a>, PubMed:<a href="http://www.uniprot.org/citations/19223857" target="\_blank">19223857</a>). Through its interaction with CDKN2A/ARF and MDM2 may induce MDM2-dependent p53/TP53 ubiquitination, stabilization and activation in the nucleus, thereby promoting G1 cell cycle arrest and inhibition of cell proliferation (PubMed:<a href="http://www.uniprot.org/citations/16173922" target="\_blank">16173922</a>). May also play a role in the rupture of the nuclear envelope during apoptosis (PubMed:<a href="http://www.uniprot.org/citations/23478299" target="\_blank">23478299</a>). May regulate MAPK14 activity by regulating its dephosphorylation by PPM1D/WIP1 (PubMed:<a href="http://www.uniprot.org/citations/21283629" target="\_blank">21283629</a>). Required for liver development (By similarity).

#### Cellular Location

Nucleus. Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome  
Note=Colocalizes and associates with microtubules

#### Tissue Location

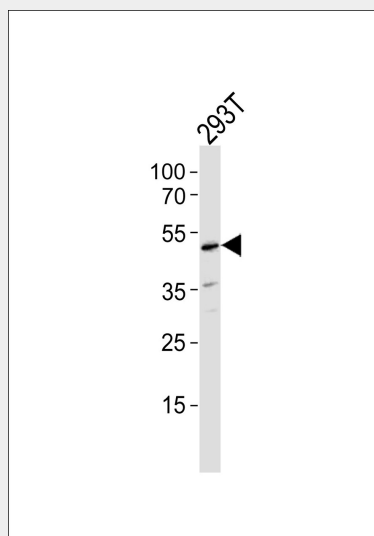
Ubiquitously expressed (PubMed:10721722, PubMed:12054757). Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Isoform 3 is expressed in kidney, liver, skeletal muscle and placenta (PubMed:12737517)

#### CDK5RAP3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### CDK5RAP3 Antibody - Images



Western blot analysis of lysate from 293T cell line, using CDK5RAP3 Antibody (AP50663). AP50663 was diluted at 1:500. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the

secondary antibody.Lysate at 35ug.

### **CDK5RAP3 Antibody - Background**

Potential regulator of CDK5 activity. May be involved in cell proliferation. Regulates CDK5 activity via its interaction with CDK5R1 (By similarity).

### **CDK5RAP3 Antibody - References**

Chen J.,et al.Biochem. Biophys. Res. Commun. 294:161-166(2002).

Xie Y.H.,et al.Cell Res. 13:83-91(2003).

Favier A.-L.,et al.Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.

Shichijo S.,et al.Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).