

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

CDK5RAP3 Antibody - Product Information

Application	WB
Primary Accession	O96JB5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57,46,31 KDa
Antigen Region	350-379

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

FormatRabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), 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: [23152784](http://www.uniprot.org/citations/23152784), PubMed: [30635284](http://www.uniprot.org/citations/30635284)). Negatively regulates NF-kappa-B-mediated gene transcription through the control of RELA phosphorylation (PubMed: [17785205](http://www.uniprot.org/citations/17785205), PubMed: [20228063](http://www.uniprot.org/citations/20228063)). Probable tumor suppressor initially identified as a CDK5R1 interactor controlling cell proliferation (PubMed: [12054757](http://www.uniprot.org/citations/12054757), PubMed: [12737517](http://www.uniprot.org/citations/12737517)). Also regulates mitotic G2/M transition checkpoint and mitotic G2 DNA damage checkpoint

(PubMed:15790566, PubMed:19223857). 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:16173922). May also play a role in the rupture of the nuclear envelope during apoptosis (PubMed:23478299). May regulate MAPK14 activity by regulating its dephosphorylation by PPM1D/WIP1 (PubMed:21283629). Required for liver development (By similarity).

Cellular Location

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

Tissue Location

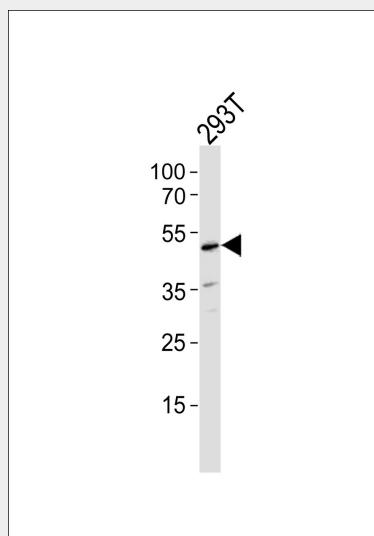
Ubiquitously expressed (PubMed:12054757, PubMed:10721722). Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Isoform 3 is expressed in kidney, liver, skeletal muscle and placenta (PubMed:12737517)

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).