

CDK5RAP3 Antibody (aa341-390)
Rabbit Polyclonal Antibody
Catalog # ALS15983**Specification**

CDK5RAP3 Antibody (aa341-390) - Product Information

Application	IHC, WB
Primary Accession	O96JB5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57kDa KDa

CDK5RAP3 Antibody (aa341-390) - Additional Information**Gene ID** 80279**Other Names**

CDK5 regulatory subunit-associated protein 3, CDK5 activator-binding protein C53, LXXLL/leucine-zipper-containing ARF-binding protein, Protein HSF-27, CDK5RAP3, IC53, LZAP {ECO:0000303|PubMed:20164180}

Target/Specificity

CDK5RAP3 Antibody detects endogenous levels of total CDK5RAP3 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

CDK5RAP3 Antibody (aa341-390) is for research use only and not for use in diagnostic or therapeutic procedures.

CDK5RAP3 Antibody (aa341-390) - 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, PubMed:30635284). Negatively regulates NF-kappa-B-mediated gene transcription through the control of RELA phosphorylation (PubMed:17785205, PubMed:20228063). Probable tumor suppressor initially identified as a CDK5R1 interactor controlling cell proliferation (PubMed:12054757, PubMed: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)

Volume

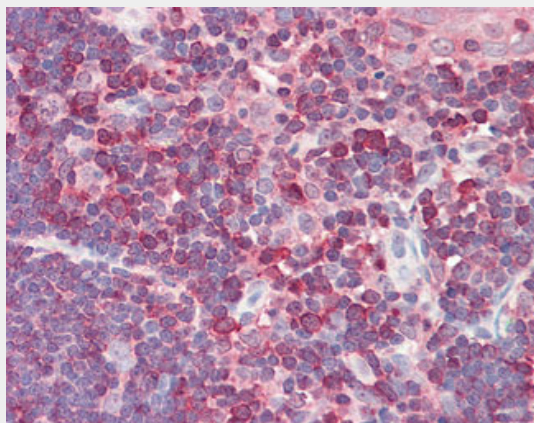
100 µl

CDK5RAP3 Antibody (aa341-390) - Protocols

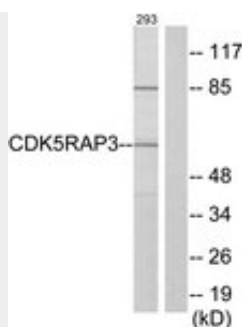
Provided below are standard protocols that you may find useful for product applications.

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

CDK5RAP3 Antibody (aa341-390) - Images



Anti-CDK5RAP3 antibody IHC staining of human thymus.



Western blot of extracts from 293 cells, using CDK5RAP3 Antibody.

CDK5RAP3 Antibody (aa341-390) - Background

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

CDK5RAP3 Antibody (aa341-390) - 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).