

CDK5RAP3 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14753**Specification**

CDK5RAP3 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	O96JB5
Other Accession	NM_176096 , NP_788276
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted	Human, Mouse, Rat, Rabbit, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56kDa KDa

CDK5RAP3 antibody - N-terminal region - Additional Information**Gene ID** 80279**Alias Symbol** C53, HSF-27, IC53, LZAP, MST016, OK/SW-cl.114**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}

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-CDK5RAP3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

CDK5RAP3 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CDK5RAP3 antibody - N-terminal region - 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

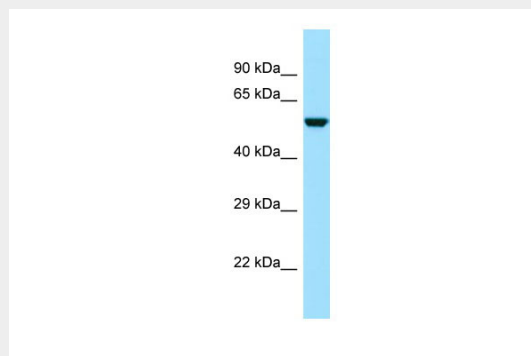
Ubiquitously expressed (PubMed:10721722, PubMed:12054757). Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Isoform 3 is expressed in kidney, liver, skeletal muscle and placenta (PubMed:12737517)

CDK5RAP3 antibody - N-terminal region - 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 - N-terminal region - Images



WB Suggested Anti-CDK5RAP3 Antibody Titration: 1.0 µg/ml

Positive Control: THP-1 Whole Cell

CDK5RAP3 antibody - N-terminal region - 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).