

Rabbit CDK5RAP3 Polyclonal Antibody | anti-CDK5RAP3 antibody

CDK5RAP3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324236	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

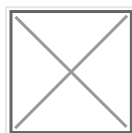
PRODUCT SYNONYMS

CDK5RAP3; Polyclonal Antibody; CDK5RAP3 Antibody; C53; CDK5 activator binding protein C53; CDK5 activator-binding protein C53; CDK5 regulatory subunit associated protein 3; CDK5 regulatory subunit-associated protein 3; Cdk5rap3; CK5P3_HUMAN; HSF 27; HSF27; IC53; Ischemic heart CDK5 activator binding protein C53; LXXLL/leucine zipper containing ARFbinding protein; LZAP; MST016; OK/SW cl.114; PP1553; Protein HSF-27; anti-CDK5RAP3 antibody

PRODUCT SPECIFICATIONS

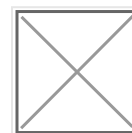
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CDK5RAP3 antibody detects endogenous levels of total CDK5RAP3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	531
Applicable Applications for anti-CDK5RAP3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus; Cytoskeleton
Tissue Specificity	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).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from 293 cells, using CDK5RAP3 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA324236 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CDK5RAP3 antibody	Function: Probable tumor suppressor initially identified as a CDK5R1 interactor controlling cell proliferation (PubMed:12054757, PubMed:12737517). Negatively regulates NF-kappa-B-mediated gene transcription through the control of RELA phosphorylation (PubMed:17785205, PubMed:20228063). 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 play a role in the unfolded protein response, mediating the ufmylation of multiple proteins in response to endoplasmic reticulum stress (PubMed:23152784). 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). Subunit Structure: Interacts with CDK5R1; competes with CDK5RAP1 and CDK5RAP2 (PubMed:12737517). Interacts with RELA (PubMed:17785205). Interacts with CHEK1; may negatively regulate CHEK1 and thereby stimulate entry into mitosis (PubMed:19223857). Interacts with CDKN2A/ARF and MDM2; forms a ternary complex involved in regulation of p53/TP53 (PubMed:16173922). Interacts with UFL1; the interaction is direct (PubMed:20164180, PubMed:20228063). Interacts with DDRGK1 (PubMed:20228063). Interacts with MAPK14 (PubMed:21283629). Interacts with CCNB1 (PubMed:15790566). Interacts with TUBG1; may regulate CDK5RAP3 in mitotic G2/M transition checkpoint (PubMed:21465471). Post-translational Modifications: May be phosphorylated by CDK5. Ubiquitinated. Probably triggers proteasomal degradation and is negatively regulated by UFL1. May be ufmylated. Cleaved by caspases early during apoptosis, the resulting peptides may play a role in rupture of the nuclear envelope. Similarity: Belongs to the CDK5RAP3 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	503774379
NCBI GeneID	80279
NCBI Accession #	NP_001265126.1
NCBI GenBank Nucleotide #	NM_001278197.1
UniProt Accession #	Q96JB5; Q53FA2; Q9H3F8; Q9H8G0; Q9HBR9; B7Z6N4; D3DTU1; D3DTU2; F5H3I5
Molecular Weight	Observed: 60 kD Predicted: 57 kDa
NCBI Official Full Name	CDK5 regulatory subunit-associated protein 3 isoform c
NCBI Official Synonym Full Names	CDK5 regulatory subunit associated protein 3
NCBI Official Symbol	CDK5RAP3
NCBI Official Synonym Symbols	C53; IC53; LZAP; HSF-27; MST016; PP1553; OK/SW-cl.114
NCBI Protein Information	CDK5 regulatory subunit-associated protein 3
UniProt Protein Name	CDK5 regulatory subunit-associated protein 3
UniProt Gene Name	CDK5RAP3
UniProt Synonym Gene Names	IC531 PublicationManual assertion based on opinion iniRef.15

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.