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Anti-CIP29 Antibody

Catalog # AP51810

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P82979
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23671

Additional Information

Gene ID	84324
Other Names	HCC1; SAP domain-containing ribonucleoprotein; Cytokine-induced protein of 29 kDa; Nuclear protein Hcc-1; Proliferation-associated cytokine-inducible protein CIP29
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CIP29. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	SARNP
Synonyms	HCC1
Function	Binds both single-stranded and double-stranded DNA with higher affinity for the single-stranded form. Specifically binds to scaffold/matrix attachment region DNA. Also binds single-stranded RNA. Enhances RNA unwinding activity of DDX39A. May participate in important transcriptional or translational control of cell growth, metabolism and carcinogenesis. Component of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and specifically associates with spliced mRNA and not with unspliced pre- mRNA (PubMed:15338056, PubMed:17196963, PubMed:20844015). The TREX complex is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA

export to the cytoplasm via the TAP/NXF1 pathway (PubMed:15338056, PubMed:17196963, PubMed:20844015). Associates with DDX39B, which facilitates RNA binding of DDX39B and likely plays a role in mRNA export (PubMed:37578863).

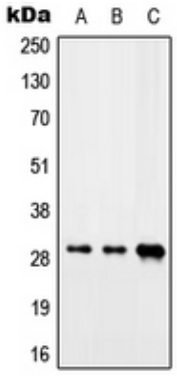
Cellular Location Nucleus. Nucleus speckle.

Tissue Location Low expression in spleen, liver, pancreas, testis, thymus, heart, and kidney. Increased levels are seen in hepatocellular carcinoma and pancreatic adenocarcinoma.

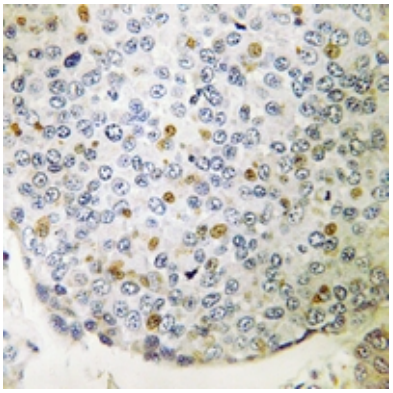
References

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Fukuda S.,et al.Biochem. Biophys. Res. Commun. 292:593-600(2002).
Zhang Q.-H.,et al.Genome Res. 10:1546-1560(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Images

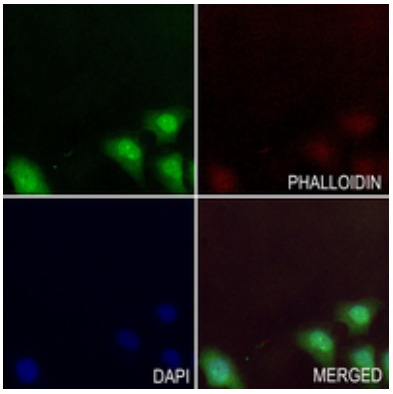


Western blot analysis of CIP29 expression in Jurkat (A), mouse heart (B), rat liver (C) whole cell lysates. (Predicted band size: 23 kD; Observed band size: 29 kD)



Immunohistochemical analysis of CIP29 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Immunofluorescent analysis of CIP29 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was



used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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