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Anti-p14 ARF Antibody

Catalog # AP51072

Product Information

Application	WB, IP
Primary Accession	Q8N726
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	13903

Additional Information

Gene ID	1029
Other Names	CDKN2; MLM; Cyclin-dependent kinase inhibitor 2A, isoform 4; p14ARF; p19ARF
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human p14 ARF. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IP~~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	CDKN2A {ECO:0000312|EMBL:AAM77919.1, ECO:0000312|HGNC:HGNC:1787}
Function	Capable of inducing cell cycle arrest in G1 and G2 phases. Acts as a tumor suppressor. Binds to MDM2 and blocks its nucleocytoplasmic shuttling by sequestering it in the nucleolus. This inhibits the oncogenic action of MDM2 by blocking MDM2-induced degradation of p53 and enhancing p53-dependent transactivation and apoptosis. Also induces G2 arrest and apoptosis in a p53-independent manner by preventing the activation of cyclin B1/CDC2 complexes. Binds to BCL6 and down-regulates BCL6-induced transcriptional repression. Binds to E2F1 and MYC and blocks their transcriptional activator activity but has no effect on MYC transcriptional repression. Binds to TOP1/TOPOI and stimulates its activity. This complex binds to rRNA gene promoters and may play a role in rRNA transcription and/or maturation. Interacts with NPM1/B23 and promotes its polyubiquitination and degradation, thus inhibiting rRNA processing. Plays a role in inhibiting ribosome biogenesis, perhaps by binding to the nucleolar localization

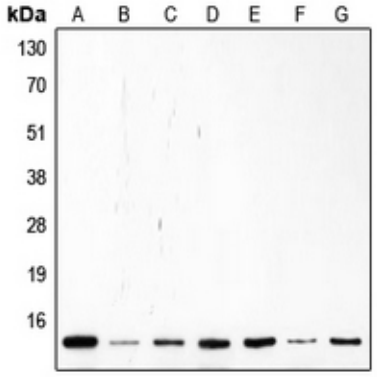
sequence of transcription termination factor TTF1, and thereby preventing nucleolar localization of TTF1 (By similarity). Interacts with COMMD1 and promotes its 'Lys63'-linked polyubiquitination. Interacts with UBE2I/UBC9 and enhances sumoylation of a number of its binding partners including MDM2 and E2F1. Binds to HUWE1 and represses its ubiquitin ligase activity. May play a role in controlling cell proliferation and apoptosis during mammary gland development.

Cellular Location Nucleus, nucleolus. Nucleus, nucleoplasm

References

Stone S.,et al.Cancer Res. 55:2988-2994(1995).
Linnenbach A.J.,et al.Submitted (OCT-1995) to the EMBL/GenBank/DDBJ databases.
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Duro D.,et al.Oncogene 11:21-29(1995).

Images



Western blot analysis of p14 ARF expression in Saos2 (A), Molt (B), K562 (C), Jurkat (D), HL60 (E), MCF7 (F), HeLa (G) whole cell lysates. (Predicted band size: 8; 11; 12; 13; 16; 17 kD; Observed band size: 14 kD)

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