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RRP8 Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15630

Product Information

Application	WB
Primary Accession	O43159
Other Accession	NM_015324, NP_056139
Reactivity	Human, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine, Yeast
Predicted	Human, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Yeast
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50715

Additional Information

Gene ID	23378
Alias Symbol	KIAA0409
Other Names	Ribosomal RNA-processing protein 8, 2.1.1.-, Cerebral protein 1, Nucleomethylin, RRP8, KIAA0409, NML
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-RRP8 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	RRP8 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

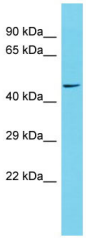
Name	RRP8
Synonyms	KIAA0409, NML
Function	Essential component of the eNoSC (energy-dependent nucleolar silencing) complex, a complex that mediates silencing of rDNA in response to intracellular energy status and acts by recruiting histone- modifying enzymes. The eNoSC complex is able to sense the energy status of cell: upon glucose starvation, elevation of NAD(+)/NADP(+) ratio activates SIRT1, leading to histone H3 deacetylation followed by dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the formation of silent chromatin in the rDNA locus. In the complex, RRP8 binds to H3K9me2 and probably acts as a

	methyltransferase. Its substrates are however unknown.
Cellular Location	Nucleus, nucleolus Note=Localizes at rDNA locus

References

Yazaki M.,et al.Submitted (AUG-1996) to the EMBL/GenBank/DDBJ databases.
Ishikawa K.,et al.DNA Res. 4:307-313(1997).
Scherl A.,et al.Mol. Biol. Cell 13:4100-4109(2002).
Andersen J.S.,et al.Curr. Biol. 12:1-11(2002).
Olsen J.V.,et al.Cell 127:635-648(2006).

Images



Host: Rabbit
Target Name: RRP8
Sample Tissue: Placenta lysates
Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.