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MKRN3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5648c

Product Information

Application	WB, E
Primary Accession	Q13064
Other Accession	NP_005655.1
Reactivity	Human, Rat, Mouse
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27251
Calculated MW	55645
Antigen Region	160-189

Additional Information

Gene ID	7681
Other Names	Probable E3 ubiquitin-protein ligase makorin-3, 632-, RING finger protein 63, Zinc finger protein 127, MKRN3, D15S9, RNF63, ZNF127
Target/Specificity	This MKRN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-189 amino acids from the Central region of human MKRN3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MKRN3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MKRN3
Synonyms	D15S9, RNF63, ZNF127

Function	E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins. Acts as a key developmental timer that helps ensure puberty begins at the appropriate age, by inhibiting premature activation of the reproductive hormone cascade. Epigenetically regulates GNRH1 transcription by disrupting the binding of methyl-DNA binding protein 3/MBD3 to the promoter of GNRH1. Mechanistically, mediates the non-proteolytic ubiquitination of MBD3 at multiple sites with 'Lys27' ubiquitin linkages and thereby regulates the methylation status of the genome, including GNRH1 promoter (PubMed:34692086). Modulates the stability and translation of GNRH1 mRNA by mediating the non-proteolytic ubiquitination of PABP family members PABPC1, PABPC3 and PABPC4 at multiple sites (PubMed:33744966). Also participates in the maintenance of genomic and epigenomic stability by regulating the abundance of APEX2 via 'Lys-48'-linked ubiquitination (PubMed:38705397).
Cellular Location	Nucleus.
Tissue Location	Ubiquitous..

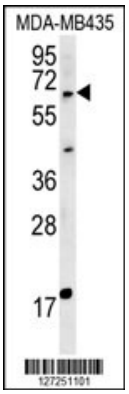
Background

The protein encoded by this gene contains a RING (C3HC4) zinc finger motif and several C3H zinc finger motifs.

References

Jong, M.T., et al. Hum. Mol. Genet. 8(5):783-793(1999)

Images



MKRN3 Antibody (Center) (Cat. #AP5648c) western blot analysis in MDA-MB435cell line lysates (15ug/lane).This demonstrates the MKRN3 antibody detected the MKRN3 protein (arrow).

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