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FIGNL1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17687a

Product Information

Application	WB, E
Primary Accession	Q6PIW4
Other Accession	NP_001036227.1
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37685
Calculated MW	74077
Antigen Region	12-40

Additional Information

Gene ID	63979
Other Names	Fidgetin-like protein 1, 364-, FIGNL1
Target/Specificity	This FIGNL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-40 amino acids from the N-terminal region of human FIGNL1.
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	FIGNL1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FIGNL1 {ECO:0000303|PubMed:23754376, ECO:0000312|HGNC:HGNC:13286}
Function	ATPase that maintains genome stability by acting as a key regulator of DNA double-strand break (DSB) repair via homologous recombination (HR)

(PubMed:23754376, PubMed:37256941, PubMed:37347663, PubMed:37515771, PubMed:37556550, PubMed:38286805, PubMed:38597669, PubMed:39636933, PubMed:41166468). Regulates HR by mediating disassembly of RAD51 filaments from DNA and chromatin, thereby preventing DNA damage-independent RAD51 loading and persistent DNA accumulation of RAD51 recombinases (PubMed:37256941, PubMed:37347663, PubMed:37515771, PubMed:37556550, PubMed:38286805, PubMed:38597669, PubMed:39636933, PubMed:41166468). Also regulates HR during meiosis by mediating dissociation of DMC1 filaments from DNA (By similarity). May regulate osteoblast proliferation and differentiation (By similarity).

Cellular Location

Chromosome. Nucleus. Cytoplasm Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q8BPY9} Note=Recruited at DSB sites independently of BRCA2, RAD51 and RAD51 paralogs in a H2AX-dependent manner.

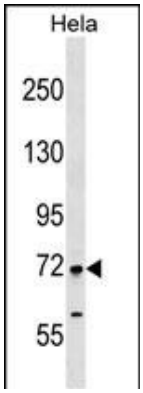
Background

FIGNL1 may regulate osteoblast proliferation and differentiation (By similarity).

References

de Krom, M., et al. Biol. Psychiatry 65(7):625-630(2009)
Matsuoka, S., et al. Science 316(5828):1160-1166(2007)

Images



FIGNL1 Antibody (N-term) (Cat. #AP17687a) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the FIGNL1 antibody detected the FIGNL1 protein (arrow).

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