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FIGNL2 Rabbit pAb

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Catalog # AP56115

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	A6NMB9
Predicted	Rat, Pig, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66603
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FIGNL2
Epitope Specificity	221-320/653
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	401720
Other Names	Fidgetin-like protein 2, 3.6.4.-, FIGNL2 (HGNC:13287)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	FIGNL2 (HGNC:13287)
Function	Microtubule-severing enzyme that negatively regulates cell migration and wound healing (PubMed:25756798, PubMed:36523161). In migrating cells, targets dynamic microtubules (MTs) at the leading edge and severs them, thereby suppressing motility (PubMed:25756798, PubMed:36523161). Microtubule severing releases ARHGEF2 which activates RHOA, which in turn regulates focal ahesion turnover via focal adhesion kinase, as opposed to F-actin polymerization, to suppress cell motility (PubMed:36523161). Negative regulator of axon regeneration that suppresses axonal growth by selectively severing dynamic MTs in the distal axon shaft and growth cone (By similarity).

	Contributes to proper cell branching during endothelial and neuronal development (By similarity).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:J3QK54}. Cytoplasm, cell cortex. Note=Localizes at the leading edge of migrating cells.

Background

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