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Multicilin Rabbit pAb

Catalog # AP98249

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	D6RGH6
Other Accession	D6RGH6
Reactivity	Rat
Predicted	Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41720
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Multicilin
Epitope Specificity	281-385/385
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the geminin family.
SUBUNIT	Homodimer. Interacts with GMNN; targets GMNN to the nucleus, prevents GMNN interaction with CDT1 and competes with IDAS homodimerization.
DISEASE	Probable target of the anaphase promoting complex/cyclosome (APC/C) which regulates its level in the cell during the mitotic cell cycle. Highly expressed during interphase and early mitosis. Expression decreases during anaphase to become undetectable during telophase and cytokinesis.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Transcription regulator required for multiciliate cell differentiation. Acts by promoting transcription of genes required for multiciliate cell formation. Probably acts in a multiprotein complex (By similarity). Plays a role in mitotic cell cycle progression by promoting cell cycle exit.

Additional Information

Gene ID	345643
Other Names	CILD42; IDAS; MCI; MCIN; MCIN_HUMAN; MCIDAS; Multiciliate differentiation and DNA synthesis-associated cell cycle protein (McIdas protein); Protein Idas; multiciliate differentiation and DNA synthesis associated cell cycle protein; multiciliate cell differentiation 1; multicilin
Dilution	IHC-P=1:100-500,IHC-F=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	MCIDAS (HGNC:40050)
Synonyms	IDAS, MCI, MCIN
Function	Transcription regulator specifically required for multiciliate cell differentiation (PubMed:25048963). Acts in a multiprotein complex containing E2F4 and E2F5 that binds and activates genes required for centriole biogenesis. Required for the deuterosome- mediated acentriolar pathway (PubMed:25048963). Plays a role in mitotic cell cycle progression by promoting cell cycle exit. Modulates GMNN activity by reducing its affinity for CDT1 (PubMed:21543332, PubMed:24064211).
Cellular Location	Nucleus. Note=Excluded from the nucleolus

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