

CYLC2 Rabbit pAb

Catalog # AP97647

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q14093
Other Accession	Q14093
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39079
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CYLC2
Epitope Specificity	21-120/348
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.
Background Descriptions	Cylicin-2 is a 348 amino acid protein encoded by the human gene CYLC2. Cylicin-1 is a type of a cytoskeletal protein which contains numerous Lys-Lys-Asp tripeptides accumulated in nine central repetitive units predicted to form α -helices. Cylicin-2, present in cow and human sperm heads, has the same prominent molecular characteristics as Cylicin-1, including a high content of charged amino acids, the abundance of Lys-Lys-Asp tripeptides and repetitive units of presumably α -helical configuration. Cylicin-2 is found in the acrosomal region of round spermatids and in the post-acrosomal region of late spermatids and spermatozoa, in agreement with the localization of Cylicin-1. Cylicin-2 is a novel Actin-binding protein, which probably plays a role in the Actin-related events that occur during spermiogenesis and the early events of fertilization.

Additional Information

Gene ID	1539
Other Names	CYLC2_HUMAN; CYLC2; Cylicin II; Multiple-band polypeptide II; CYL2; cylicin 2; cylicin, basic protein of sperm head cytoskeleton 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
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	CYLC2
Synonyms	CYL2
Function	Plays a role in the establishment of normal sperm morphology during spermatogenesis. It is required for acrosome attachment to the nuclear envelope, and proper manchette elongation and disassembly.
Cellular Location	Cytoplasm, cytoskeleton, perinuclear theca, calyx {ECO:0000250 UniProtKB:A0A571BEE2}. Cytoplasm, cytoskeleton, perinuclear theca {ECO:0000250 UniProtKB:A0A571BEE2}. Note=Localizes to the subacrosomal layer of the perinuclear theca in round and elongating spermatids. Localizes to the calyx, also known as post-acrosomal region, in spermatozoa. {ECO:0000250 UniProtKB:A0A571BEE2}
Tissue Location	Testis..

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