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## CYLC2 Rabbit pAb

Catalog Number: bs-14142R

Target Protein: CYLC2

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ICC/IF (1:100-500), ELISA (1:5000-10000)

Reactivity: (predicted:Human)

Predicted MW: 39 kDa

Entrez Gene: 1539

Swiss Prot: Q14093

Source: KLH conjugated synthetic peptide derived from human CYLC2: 21-120/348.

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** 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  $\alpha$ -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  $\alpha$ -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.