RCC1 monoclonal antibody

Catalog: MB66914 Host: Mouse Reactivity: Human, Mouse

BackGround:

The Ras family small GTPase Ran is involved in nuclear envelope formation, assembly of the mitotic spindle, and nuclear transport . Like other small GTPases, Ran is active in its GTP-bound form and inactive in its GDP-bound form. Nuclear RanGTP concentration is maintained through nuclear localization of guanine nucleotide exchange factor activity, which catalyzes the exchange of bound GDP for GTP. Regulator of chromatin condensation 1 is the only known RanGEF . RCC1 is dynamically chromatin-bound throughout the cell cycle, and this localization is required for mitosis to proceed normally. Appropriate association of RCC1 with chromatin is regulated through amino-terminal phosphorylation and methylation. RCC1 regulation of RanGTP levels in response to histone modifications regulates nuclear import during apoptosis . In mitosis RCC1 is phosphorylated at Ser11, possibly by cyclin B/cdc2 . This phosphorylation may play a role in RCC1 interaction with chromatin and RCC1 RanGEF activity .

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 45 kDa

Swiss-Prot:

P18754

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/1000 - 1/2000)

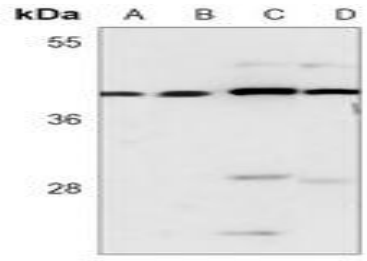
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of RCC1 protein.

DATA:



Western blot analysis of RCC1 expression in Hela (A), HL60 (B), COS7 (C), C2C12 (D) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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