

RCC1 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP07721
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthetic peptide from human protein at AA range: 301-350
Mol wt	44969
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	RCC1 Antibody
Synonyms	RCC1 CHC1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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 (GEF) activity, which catalyzes the exchange of bound GDP for GTP. RCC1 (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 cyclinB/cdc2. This phosphorylation may play a role in RCC1 interaction with chromatin and its RanGEF activity.

Recommended Dilution

WB: 1: 500 - 2000

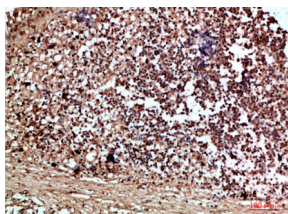
ELISA: 1: 10000 - 20000

Not yet tested in other applications.

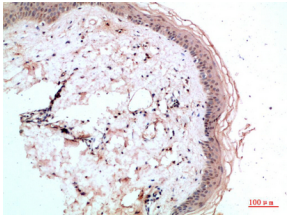
Images



Western Blot analysis of HEPG2 cells using Antibody diluted at 800. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-thyroid, antibody was diluted at 1:200



Immunohistochemical analysis of paraffin-embedded human-skin, antibody was diluted at 1:200

Storage

-20°C for one year

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