



RCC1 Polyclonal Antibody

Cat #: ABP57539

Size: 30µl /100µl /200µl

Product Information

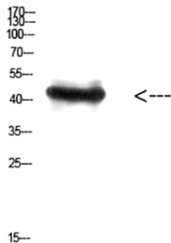
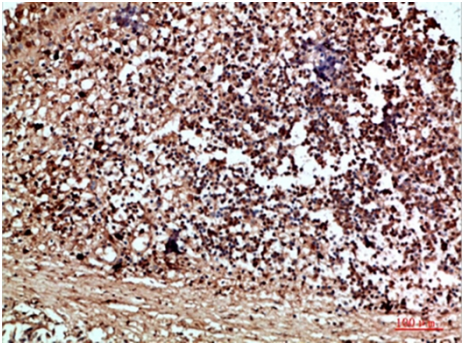
	Product Name: RCC1 Polyclonal Antibody		
	Applications: WB, ELISA		Isotype: Rabbit IgG
	Reactivity: Human, Mouse, Rat		
REF	Catalog Number: ABP57539	LOT	Lot Number: Refer to product label
	Formulation: Liquid		Concentration: 1 mg/ml
	Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.		Note: Contain sodium azide.

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.

Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:10000), ELISA (1:10000).

Storage Buffer: PBS, pH 7.4, containing 0.02% Sodium Azide as preservative and 50% Glycerol.

Storage Instructions: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

 <p>Western blot analysis of HEPG2 cells. The molecular weight marker on the left indicates bands at 120, 100, 70, 55, 40, 35, 25, and 15 kDa. A single band is visible at approximately 40 kDa, indicated by an arrowhead.</p>	<p>Fig.1. Western Blot analysis of HEPG2 cells using Antibody diluted at 1:800. Secondary antibody (catalog#: A21020) was diluted at 1:20000.</p>
 <p>Immunohistochemical analysis of paraffin-embedded human thyroid tissue. The image shows brown staining (DAB) indicating positive immunoreactivity. A scale bar in the bottom right corner indicates 100 μm.</p>	<p>Fig.2. Immunohistochemical analysis of paraffin-embedded human-thyroid, antibody was diluted at 1:200.</p>

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