RCC1 Rabbit mAb

Catalog # AP76692

Product Information

Application	WB, IHC-P, FC
Primary Accession	[P18754](#)
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	44969

Additional Information

Gene ID	1104
Other Names	RCC1
Dilution	WB~~1:1000 IHC-P~~N/A FC~~1:10~50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	RCC1
Synonyms	CHC1
Function	Guanine-nucleotide releasing factor that promotes the exchange of Ran-bound GDP by GTP, and thereby plays an important role in RAN-mediated functions in nuclear import and mitosis (PubMed:[11336674](#), PubMed:[17435751](#), PubMed:[1944575](#), PubMed:[20668449](#), PubMed:[22215983](#), PubMed:[29042532](#)). Contributes to the generation of high levels of chromosome-associated, GTP-bound RAN, which is important for mitotic spindle assembly and normal progress through mitosis (PubMed:[12194828](#), PubMed:[17435751](#), PubMed:[22215983](#)). Via its role in maintaining high levels of GTP-bound RAN in the nucleus, contributes to the release of cargo proteins from importins after nuclear import (PubMed:[22215983](#)). Involved in the regulation of onset of chromosome condensation in the S phase (PubMed:[3678831](#)). Binds both to the nucleosomes and double-stranded DNA (PubMed:[17435751](#), PubMed:[18762580](#)).

Cellular Location	Nucleus. Chromosome. Cytoplasm Note=Predominantly nuclear in interphase cells (PubMed:12194828). Binds to mitotic chromosomes (PubMed:12194828, PubMed:17435751, PubMed:20668449).

Background

Guanine-nucleotide releasing factor that promotes the exchange of Ran-bound GDP by GTP. Involved in the regulation of onset of chromosome condensation in the S phase. Binds both to the nucleosomes and double-stranded DNA.

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