

Ran Antibody



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Applications: W	Reactivity: H M R Hm Mk B	Sensitivity: Endogenous	MW (kDa): 24	Source/Isotype: Rabbit	UniProt ID: #P62826	Entrez-Gene Id: 5901
Product Usago Information	e	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Ran Antibody detects endogenous levels of total Ran protein. The antibody does not cross-react with other small GTPases of the Ras family.				
Species predicted to react based on 100% sequence homology		D. melanogaster, Xenopus				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with two synthetic peptides corresponding to amino acids surrounding Arg29 and Asn143 of human Ran. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Ran is a small GTPase of the Ras family that plays a central role in the spacial and temperal organization of eukaryotic cells. During interphase, Ran-GDP localizes to the cytoplasm and Ran-GTP to the nucleus. This polarized localization of Ran ensures its role in nuclear transport (1). During mitosis, Ran-GTP is chromatin associated, where it promotes spindle assembly and nuclear envolope formation (1,2). In S phase, Ran-GTP associates with and inhibits MCM helicase, ensuring precise chromosomal DNA duplication during the cell cycle (3).				
Background References		1. Quimby, B.B. and Dasso, M. (2003) <i>Curr. Opin. Cell Biol.</i> 15, 338-344. 2. Hetzer, M. et al. (2002) <i>Nat. Cell Biol.</i> 4, 177-184. 3. Yamaguchi, R. and Newport, J. (2003) <i>Cell</i> 113, 115-125.				
Species React	ivity	Species reactivity is de	termined by testing	ງ in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey B: Bovine

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