Ribosomal Protein S3 Antibody



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Applications: W, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 27	Source/Isotype: Rabbit	UniProt ID: #P23396	Entrez-Gene Id: 6188
Product Usage Information	e	Application Western Blotting Immunofluorescence	e (Immunocytochem	istry)		Dilution 1:1000 1:25
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		Ribosomal Protein S3 Antibody detects endogenous levels of total ribosomal protein S3.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly199 of human ribosomal protein S3 protein. Antibodies are purified by peptide affinity chromatography.				
Background		Ribosomal protein S3 (rpS3) is a component of the 40S ribosomal subunit and is involved in translation. HSP90 interacts with both the amino-terminus and carboxy-terminus of rpS3, preventing its ubiquitination and degradation and thereby retaining the integrity of the ribosome (1). rpS3 has also been shown to function as an endonuclease during DNA damage repair (2,3). Furthermore, overexpression of rpS3 sensitizes lymphocytic cells to cytokine-induced apoptosis, indicating a third role for rpS3 during apoptosis (4). The functions of rpS3 during DNA damage repair and apoptosis have been mapped to two distinct domains (4).				
Background References		1. Kim, T.S. et al. (200 2. Kim, J. et al. (1995) 3. Choi, S.H. et al. (20 4. Jang, C.Y. et al. (200	<i>J Biol Chem</i> 270, 130 06) <i>FEBS Lett</i> 580, 6	520-9. 755-62.		
Species Reactivity		Species reactivity is determined by testing in at least one approved 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 IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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