

#2579 Store at -20°C

Ribosomal Protein S3 Antibody


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IF-IC	H M R Mk	Endogenous	27	Rabbit	#P23396	6188

Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:25
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/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 the sequence of human ribosomal protein S3. 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. (2006) <i>Mol Biol Cell</i> 17, 824-33. 2. Kim, J. et al. (1995) <i>J Biol Chem</i> 270, 13620-9. 3. Choi, S.H. et al. (2006) <i>FEBS Lett</i> 580, 6755-62. 4. Jang, C.Y. et al. (2004) <i>FEBS Lett</i> 560, 81-5.	

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	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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