

**#9538** Store at -20C

## Ribosomal Protein S3 (D50G7) XP® Rabbit mAb


**Cell Signaling**  
TECHNOLOGY®

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

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)

#### Dilution

1:1000  
1:50  
1:50 - 1:100

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

Ribosomal Protein S3 (D50G7) XP® Rabbit mAb detects endogenous levels of total ribosomal protein S3.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human ribosomal protein S3.

### 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

- Kim, T.S. et al. (2006) *Mol Biol Cell* 17, 824-33.
- Kim, J. et al. (1995) *J Biol Chem* 270, 13620-9.
- Choi, S.H. et al. (2006) *FEBS Lett* 580, 6755-62.
- Jang, C.Y. et al. (2004) *FEBS Lett* 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 **IP:** Immunoprecipitation **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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