

Store at
-20C
#13020

Phospho-S6 Ribosomal Protein (Ser240/244) (D68F8) XP[®] Rabbit mAb (Biotinylated)



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	32	Rabbit IgG	#P62753	6194

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

Phospho-S6 Ribosomal Protein (Ser240/244) (D68F8) XP[®] Rabbit mAb (Biotinylated) detects endogenous levels of ribosomal protein S6 only when phosphorylated at Ser240 and Ser244.

Species predicted to react based on 100% sequence homology

Chicken, Pig

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser240 and Ser244 of human ribosomal protein S6.

Description

This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-S6 Ribosomal Protein (Ser240/244) (D68F8) XP[®] Rabbit mAb #5364.

Background

One way that growth factors and mitogens effectively promote sustained cell growth and proliferation is by upregulating mRNA translation (1,2). Growth factors and mitogens induce the activation of p70 S6 kinase and the subsequent phosphorylation of S6 ribosomal protein. Phosphorylation of S6 ribosomal protein correlates with an increase in translation of mRNA transcripts that contain an oligopyrimidine tract in their 5' untranslated regions (2). These particular mRNA transcripts (5'TOP) encode proteins involved in cell cycle progression, as well as ribosomal proteins and elongation factors necessary for translation (2,3). Important S6 ribosomal protein phosphorylation sites include several residues (Ser235, Ser236, Ser240, and Ser244) located within a small, carboxy-terminal region of S6 protein (4,5).

Background References

- Dufner, A. and Thomas, G. (1999) *Exp Cell Res* 253, 100-9.
- Peterson, R.T. and Schreiber, S.L. (1998) *Curr Biol* 8, R248-50.
- Jefferies, H.B. et al. (1997) *EMBO J* 16, 3693-704.
- Ferrari, S. et al. (1991) *J Biol Chem* 266, 22770-5.
- Flotow, H. and Thomas, G. (1992) *J Biol Chem* 267, 3074-8.

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

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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