

14858

Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP[®] Rabbit mAb



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

| Applications: W, W-S, IHC-P, IF-F, IF-IC, FC-FP | Reactivity: H M R Mk Mi Sc | Sensitivity: Endogenous | MW (kDa): 32 | Source/Isotype: Rabbit IgG | UniProt ID: #P62753 | Entrez-Gene Id: 6194 |
|--|--------------------------------------|---|------------------------|--------------------------------------|------------------------|-------------------------|
| Product Usage | | Application | | | Dilution | |
| Information | | Western Blotting | | | 1:2000 | |
| | | Simple Western™ | | | 1:1 | 0 - 1:50 |
| | | Immunohistochemist | ry (Paraffin) | | 1:2 | 00 - 1:800 |
| | | Immunofluorescence | (Frozen) | | 1:5 | 0 - 1:100 |
| | | Immunofluorescence | (Immunocytochem | istry) | 1:5 | 0 - 1:200 |
| | | Flow Cytometry (Fixed | d/Permeabilized) | | 1:5 | 0 - 1:200 |
| 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. | | | | |
| | | For a carrier free (BSA and azide free) version of this product see product #81736. | | | | |
| Specificity/Sensitivity | | Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP [®] Rabbit mAb detects endogenous levels of ribosomal protein S6 only when phosphorylated at Ser235 and 236. Non-specific labeling in pancreatic islets has been observed by immunofluorescence in fixed frozen mouse tissue post-processed with λ phosphatase. | | | | |
| 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 Ser235 and Ser236 of human ribosomal protein S6. | | | | |
| 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 do | etermined by testin | g 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 **W-S**: Simple Western[™] **IHC-P**: Immunohistochemistry (Paraffin) **IF-F**: Immunofluorescence (Frozen) **IF-IC**: Immunofluorescence (Immunocytochemistry) **FC-FP**: Flow

Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey Mi: Mink Sc: S. cerevisiae

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