Store at -20C

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

		isitivity: ogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #P62753	Entrez-Gene Id: 6194	
Product Usage Information	Applicatio	Application				Dilution	
intormation	Western Bl	0			1:1	000	
	Simple We					0 - 1:50	
		stochemistry	. ,			0 - 1:200	
		orescence (,			00 - 1:400	
	Immunoflu	orescence (Immunocytocher	nistry)	1:1	00 - 1:400	
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 carrie	r free (BSA	and azide free) v	ersion of this product se	e product #50570.		
Specificity / Sensitivity		S6 Ribosomal Protein (5G10) Rabbit Monoclonal Antibody detects endogenous levels of total S6 ri protein independent of phosphorylation.				of total S6 ribosomal	
Species predicted to react based on 100% sequence homology:	Pig						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues of human S6 ribosomal protein.					
Background	upregulating and the sub correlates w untranslated progression S6 ribosom	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 Reference	 Peterson, Jefferies, Ferrari, S 	 Dufner, A. and Thomas, G. (1999) <i>Exp Cell Res</i> 253, 100-9. Peterson, R.T. and Schreiber, S.L. (1998) <i>Curr Biol</i> 8, R248-50. Jefferies, H.B. et al. (1997) <i>EMBO J</i> 16, 3693-704. Ferrari, S. et al. (1991) <i>J Biol Chem</i> 266, 22770-5. Flotow, H. and Thomas, G. (1992) <i>J Biol Chem</i> 267, 3074-8. 					
Species Reactivity	Species read	ctivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern 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 W-S: Simple Western™ IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivity Key							

1/1/24, 3:39 PM	S6 Ribosomal Protein (5G10) Rabbit mAb (#2217) Datasheet Without Images Cell Signaling Technology				
	 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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