1/1/24, 7:53 AM Revision 1

Phospho-elF4B (Ser406) Antibody Image: Cell Signaling Telechnology 0rders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB, IP, IF-IC	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 80	Source: Rabbit	UniProt ID: #P23588	Entrez-Gene Id: 1975
Product Usage Information	W	oplication estern Blotting munoprecipitation munofluorescence (l	Immunocytochemis	try)		Dilution 1:1000 1:50 1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensiti		ospho-eIF4B (Ser406 Ser406.	 Antibody detects 	endogenous levels	of eIF4B protein only w	hen phosphorylated
Species predicted t react based on 100 sequence homolog	%	t				
Source / Purificatio	res		er406 of human elF	0	h a synthetic peptide co ies are purified by prote	
Background	pla (1). sim ins p70 site pho	nts, eIF4B is known i Heat shock and ser illar to those of the co ulin treatment correla 56 kinase, can pho is sensitive to rapar osphorylation site reg i mTOR activity (7).	to interact with the um starvation caus orresponding inhibi ates well with an ob sphorylate eIF4B <i>ii</i> nycin and LY29400 gulated by mitogens	poly-(A) binding pro e dephosphorylation tion of translation, w served increase in to vitro, and at least 2 (6). Recently, Ser 5 (7), and the phosp	IF4F complex in transla tein, increasing its poly n of eIF4B at multiple si thile phosphorylation of translation (2-5). Multipl one serum-inducible eIF 406 was identified as a horylation of this site is sential for the translatio	-(A) binding activity tes with kinetics eIF4B following e kinases, including F4B phosphorylation novel dependent on MEK
Background Refere	2. [3. [4. [5. M 6. (Le, H. et al. (1997) <i>J.</i> Duncan, R.F. and Hei Duncan, R.F. and Hei Duncan, R. and Hers Manzella, J.M. et al. (Gingras, A.C. et al. (2 van Gorp, A.G. et al. (2	rshey, J.W. (1989) . rshey, J.W. (1984) . hey, J.W. (1985) <i>J.</i> (1991) <i>J. Biol. Cher</i> 2001) <i>Genes Dev.</i> 1	J. Cell Biol. 109, 14 J. Biol. Chem. 259, Biol. Chem. 260, 54 n. 266, 2383-2389. 5, 807-826.	11882-11889.	
Species Reactivity	Spe	cies reactivity is dete	ermined by testing i	n at least one appro	wed application (e.g., w	vestern blot).
Western Blot Buffe		ORTANT: For wester 6 Tween® 20 at 4°C			ed primary antibody in 5	% w/v BSA, 1X TBS,
Applications Key	WB	: Western Blotting IF	P: Immunoprecipita	tion IF-IC: Immunof	luorescence (Immunocy	ytochemistry)
Cross-Reactivity K	X: X		B: bovine Dg: dog	Pg: pig Sc: S. cere	s Mi: mink C: chicken D evisiae Ce: C. elegans I	÷

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Limited Uses

Phospho-eIF4B (Ser406) Antibody (#5399) Datasheet Without Images Cell Signaling Technology

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