Revision 3

Store at -20C

eIF3J Antibody



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit	UniProt ID: #075822	Entrez-Gene Id: 8669	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				ycerol. Store at –	
Specificity/Sensitivity		eIF3J Antibody detects endogenous levels of total eIF3J protein.					
Source / Purific	ation	Polyclonal antibodies a residues surrounding A affinity chromatograph	re produced by im Asp155 of human e iy.	munizing animals with a IF3J protein. Antibodies!	a synthetic peptide are purified by pro	corresponding to tein A and peptide	
Background		Translation initiation re with mRNA. The eIF4F of mRNA. eIF4F and eIF4E ribosomal subunit, alor and searches along the 10 to 13 different subu the function of this con association of the 40S r tRNAf.eIF2.GTP to the 4 upon addition of the 60 directly (3,4). When cell complex and phosphor S6K1 activation. The ac protein S6 and eIF4B, re activated mTOR signali One of the smallest sub been shown to associat (6). eIF3J has also been	equires a set of fact complex, consistin a unwind the secor ng with some initia e mRNA for the init nits. eIF3A, eIF3B, nplex. eIF3 physica- ibosomal subunit toS ribosomal subunit s are stimulated b ylates S6K1 (3). Th tivated S6K1 then esulting in stimula ng induces the ass punits of eIF3, eIF3 te with the aminoa shown to have an	tors to facilitate the asso g of eIF4E, eIF4A, and el adary structure of mRNA ation factors, including e iation codon. eIF3 is a la eIF3C, eIF3E, eIF3F, and illy interacts with eIF4G, with mRNA (1). eIF3 also unit and helps keep the nit (2). Studies have sho y hormones or mitogen is process results in the phosphorylates its dowr tion of translation. Furth sociation of eIF3 with eIF g, is critical in 40S initiat (2) site and mRNA entry additional role in the re	beciation of the 40S r F4G, binds to the 5 A at its 5' untranslat IF3, then binds to t arge translation init eIF3H are the core which may be resp to stabilizes the bind integrity of the resu with that mTOR inter ic signals, mTOR bin dissociation of S6K hastream targets, ind rafe findings demon f4G upon stimulation (channel of the 40S cycling of post-term	ribosomal subunit ' cap structure of ed region. The 40S he 5' mRNA cap iation complex with subunits critical for onsible for the ling of Met- ulting complex racts with eIF3 nds to the eIF3 1 from eIF3 and cluding ribosomal lstrated that on with insulin (3). bly (5). eIF3J has 5 ribosomal subunit nination complexes	
Background Re	ferences	(7). 1. Masutani, M. et al. (2 2. Chaudhuri, J. et al. (1 3. Holz, M.K. et al. (200 4. Harris, T.E. et al. (200 5. Fraser, C.S. et al. (200 6. Fraser, C.S. et al. (200 7. Pisarev, A.V. et al. (20	2007) EMBO J 26, 33 999) J Biol Chem 2 5) Cell 123, 569-80. 6) EMBO J 25, 1659 94) J Biol Chem 279 97) Mol Cell 26, 811 907) Cell 131, 286-9	373-83. 74, 17975-80. 9-68. , 8946-56. -9. 9.			
Species Reactiv	/ity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	rn blots, incubate at 4°C with gentle s	membrane with diluted haking, overnight.	primary antibody i	n 5% w/v BSA, 1X	
Applications K	ey	W: Western Blotting IP	: Immunoprecipita	tion			
Cross-Reactivit	y Key	H: Human M: Mouse R	: Rat				

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