5169 Store at -200

elF4G2/p97 (D88B6) XP® Rabbit



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: WB, IP, IF-IC, FC-FP, eCLIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 97	Source/Isotype: Rabbit IgG	UniProt ID: #P78344	Entrez-Gene lo 1982	
Product Usage Information	P	Application			Dilution		
	V	Vestern Blotting		1:1000			
	lı	Immunoprecipitation				1:50	
	lı	mmunofluorescence (Immunocytochen	1:100 - 1:200			
	F	Flow Cytometry (Fixed/Permeabilized)				1:400	
	е	CLIP		1:200			
		For more information about eCLIP and the RBP-eCLIP kit, please visit Eclipse Bioinnovations.					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitivity		eIF4G2/p97 (D88B6) XP® Rabbit mAb detects endogenous levels of total eIF4G2/p97 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu450 of human eIF4G2/p97 protein.					
The initiation of translation is an important biological event and a variety of factors contribute to process. Members of the eIF4 translation initiation factor family bind to the 5' m ⁷ GTP mRNA of unwind the mRNA secondary structure (1,2). The amino-terminal portion of eIF4G physically a with eIF4E to stimulate the binding of eIF4E to the mRNA cap structure (3). eIF4G also interest and eIF4A and serves as an adaptor molecule in the eIF4 complex (4). Moreover, eIF4G plays internal ribosomal entry site (IRES)-mediated initiation of translation (5,6). The eIF4G family if eIF4G1 (eIF4G1), eIF4G2 (p97, DAP5 or NAT1), and eIF4G3 (eIF4GII) (7). These factors shart homologous sequence that provides for interaction with initiation factors eIF3 and eIF4A. Both eIF4G3 are involved in cap-dependent translation, while eIF4G2 plays a role in IRES-mediate of some genes during cell stress (7,8).						mRNA cap and resically associates of interacts with eIF3 4G plays a role in family includes ors share a 4A. Both eIF4G1 and	
Background Refer	2. 3. 4. 5. 6. 7.	 Yan, R. and Rhoads, R.E. (1995) <i>Genomics</i> 26, 394-398. Morley, S.J. et al. (1997) <i>RNA</i> 3, 1085-1104. Haghighat, A. and Sonenberg, N. (1997) <i>J. Biol. Chem.</i> 272, 21677-21680. De Gregorio, E. et al. (1998) <i>RNA</i> 4, 828-836. Ohlmann, T. et al. (1996) <i>EMBO J.</i> 15, 1371-1382. Borman, A.M. and Kean, K.M. (1997) <i>Virology</i> 237, 129-136. Henis-Korenblit, S. et al. (2002) <i>Proc. Natl. Acad. Sci. USA</i> 99, 5400-5405. Nevins, T.A. et al. (2003) <i>J. Biol. Chem.</i> 278, 3572-3579. 					

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

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized) eCLIP: eCLIP

Cross-Reactivity Key

elF4G2/p97 (D88B6) XP® Rabbit mAb (#5169) 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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