## eIF4G2/p97 (D88B6) XP® Rabbit mAb



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

<b>Applications:</b> W, IP, IF-IC, FC-FP, eCLIP	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 97	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P78344	<b>Entrez-Gene Id:</b> 1982
Product Usage Information		Application			Dilution	
		Western Blotting Immunoprecipitation			1:1	000
		Immunofluorescence		nistry)		00 - 1:200
		Flow Cytometry (Fixed		11361 y )	1:4	
		eCLIP	,		1:2	
		For more information	about the RBP-eCl	IP service please visit Ec	lipsebio.	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ 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 <sup>®</sup> 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.				
Background		The initiation of translation is an important biological event and a variety of factors contribute to this process. Members of the eIF4 translation initiation factor family bind to the 5' m <sup>7</sup> GTP mRNA cap and unwind the mRNA secondary structure (1,2). The amino-terminal portion of eIF4G physically associates with eIF4E to stimulate the binding of eIF4E to the mRNA cap structure (3). eIF4G also interacts with eIF3 and eIF4A and serves as an adaptor molecule in the eIF4 complex (4). Moreover, eIF4G plays a role in internal ribosomal entry site (IRES)-mediated initiation of translation (5,6). The eIF4G family includes eIF4G1 (eIF4GI), eIF4G2 (p97, DAP5 or NAT1), and eIF4G3 (eIF4GII) (7). These factors share a homologous sequence that provides for interaction with initiation factors eIF3 and eIF4A. Both eIF4G1 and eIF4G3 are involved in cap-dependent translation, while eIF4G2 plays a role in IRES-mediated translation of some genes during cell stress (7,8).				
Background References		<ol> <li>Yan, R. and Rhoads, R.E. (1995) Genomics 26, 394-398.</li> <li>Morley, S.J. et al. (1997) RNA 3, 1085-1104.</li> <li>Haghighat, A. and Sonenberg, N. (1997) J. Biol. Chem. 272, 21677-21680.</li> <li>De Gregorio, E. et al. (1998) RNA 4, 828-836.</li> <li>Ohlmann, T. et al. (1996) EMBO J. 15, 1371-1382.</li> <li>Borman, A.M. and Kean, K.M. (1997) Virology 237, 129-136.</li> <li>Henis-Korenblit, S. et al. (2002) Proc. Natl. Acad. Sci. USA 99, 5400-5405.</li> <li>Nevins, T.A. et al. (2003) J. Biol. Chem. 278, 3572-3579.</li> </ol>				
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
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**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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-

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

**Cross-Reactivity Key** H: Human M: Mouse R: Rat Mk: Monkey

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