eIF4G2/p97 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 97	Source: Rabbit	UniProt ID: #P78344	Entrez-Gene Id: 1982	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
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 / Sensi	i tivity eIF4	eIF4G2/p97 Antibody detects endogenous levels of total eIF4G2/p97 protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu805 of human eIF4G2/p97 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	proc unw with and inter eIF4	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' m7GTP 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					

Background References

- 1. Yan, R. and Rhoads, R.E. (1995) Genomics 26, 394-398.
- 2. Morley, S.J. et al. (1997) RNA 3, 1085-1104.

of some genes during cell stress (7,8).

- 3. Haghighat, A. and Sonenberg, N. (1997) J. Biol. Chem. 272, 21677-21680.
- 4. De Gregorio, E. et al. (1998) RNA 4, 828-836.
- 5. Ohlmann, T. et al. (1996) EMBO J. 15, 1371-1382.
- 6. Borman, A.M. and Kean, K.M. (1997) Virology 237, 129-136.
- 7. Henis-Korenblit, S. et al. (2002) Proc. Natl. Acad. Sci. USA 99, 5400-5405.
- 8. Nevins, T.A. et al. (2003) J. Biol. Chem. 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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting **Applications Key**

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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eIF4G3 are involved in cap-dependent translation, while eIF4G2 plays a role in IRES-mediated translation

information.

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