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## elF4GI (D6A6) Rabbit mAb



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or Research Use Only. Not for Use in Diagnostic Procedures.						
<b>Applications:</b> WB, IP, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 220	Source/Isotype: Rabbit IgG	UniProt ID: #Q04637	Entrez-Gene Id 1981
Product Usage Information	А	Application Western Blotting			Dilution	
	W				1:1000	
	In	Immunoprecipitation			1:50	
	In	Immunohistochemistry (Paraffin)			1:100	
Storage		upplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		eIF4GI (D6A6) Rabbit mAb recognizes endogenous levels of total eIF4GI protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val418 of human eIF4GI protein.				
Background	pro un wit an int eIF ho eIF	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 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 Ref	2.   3.   4.   5. ( 6.	<ol> <li>Yan, R. and Rhoads, R.E. (1995) <i>Genomics</i> 26, 394-398.</li> <li>Morley, S.J. et al. (1997) <i>RNA</i> 3, 1085-1104.</li> <li>Haghighat, A. and Sonenberg, N. (1997) <i>J. Biol. Chem.</i> 272, 21677-21680.</li> <li>De Gregorio, E. et al. (1998) <i>RNA</i> 4, 828-836.</li> <li>Ohlmann, T. et al. (1996) <i>EMBO J.</i> 15, 1371-1382.</li> <li>Borman, A.M. and Kean, K.M. (1997) <i>Virology</i> 237, 129-136.</li> <li>Henis-Korenblit, S. et al. (2002) <i>Proc. Natl. Acad. Sci. USA</i> 99, 5400-5405.</li> </ol>				

**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 IHC-P: Immunohistochemistry (Paraffin)

**Cross-Reactivity Key** 

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

8. Nevins, T.A. et al. (2003) J. Biol. Chem. 278, 3572-3579.

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**Limited Uses** 

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