7 Store at -20C

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## eIF4G (C65H5) Rabbit mAb

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Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 220	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q04637	Entrez-Gene Id: 1981
Product Usage Information	9	Application Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		eIF4G (C65H5) Rabbit mAb detects endogenous levels of total eIF4G protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala881 of human eIF4G.				
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 R	eferences	4. De Gregorio, E. et a 5. Ohlmann, T. et al. (1 6. Borman, A.M. and k	997) RNA 3, 1085-11 ionenberg, N. (1997 I. (1998) RNA 4, 828 1996) EMBO J. 15, 1 icean, K.M. (1997) Vi et al. (2002) Proc. N	04. 7) <i>J. Biol. Chem.</i> 272, 216 -836. 371-1382. <i>rology</i> 237, 129-136. <i>atl. Acad. Sci. USA</i> 99, 54		
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		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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