eIF4G Antibody Cell Signaling TECHNOLOGY Orders: 877-616-CELL (2355) orders@cellsignal.com



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

Applications: W, IHC-P, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 220	Source/Isotype: Rabbit	
Product Usage Information		Application Western Blotting Immunohistochemistry (Pa Immunofluorescence (Imm Flow Cytometry (Fixed/Pern	raffin) unocytochemistry) neabilized)		Dilution 1:1000 1:100 1:200 1:50
Storage		20°C. Do not aliquot the antibody.			
Specificity/Sensitivity		eIF4G Antibody detects endogenous levels of total eIF4G protein.			
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a sequence of human eIF4G. Antibodies are purified by protein A and peptide affinity chromatography.			
Background Background References		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 ⁷ 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).			
		 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 determ	ined by testing in at	least one approved application	on (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 IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey			
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