Store at -200

eIF4GI Antibody



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or Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 220	Source: Rabbit	UniProt ID: #Q04637	Entrez-Gene Id: 1981	
Product Usage Information	Ар	plication		Dilution			
	We	estern Blotting		1:1000 1:50 - 1:200			
	Imi	munohistochemistry	/ (Paraffin)				
	Imi	munofluorescence ((Immunocytochemis	1:100 - 1:200			
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 20°C. Do not aliquot the antibody.					00 μg/ml BSA and 50% (glycerol. Store at –	
Specificity / Sensitivity		elF4Gl Antibody detects endogenous levels of total elF4Gl protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human eIF4GI. Antibodies are purified by peptide affinity chromatography.					
Background	prod unw with and inte eIF4 hom 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 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 Refe	2. M 3. H 4. D 5. C 6. B	an, R. and Rhoads, forley, S.J. et al. (19 laghighat, A. and So le Gregorio, E. et al ohlmann, T. et al. (19 orman, A.M. and Ke lenis-Korenblit, S. e	997) RNA 3, 1085-1 onenberg, N. (1997) . (1998) RNA 4, 828 996) EMBO J. 15, 1 ean, K.M. (1997) Vii	i.			

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

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

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) **Applications Key**

IF-IC: Immunofluorescence (Immunocytochemistry)

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

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Limited Uses

elF4GI Antibody (#2858) Datasheet Without Images Cell Signaling Technology

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