

**#12496** Store at -20°C

# eIF1 (D7G3L) Rabbit mAb


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	13	Rabbit IgG	#P41567	10209

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:100
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	eIF1 (D7G3L) Rabbit mAb recognizes endogenous levels of total eIF1 protein. Based upon sequence alignment, this antibody may cross-react with eIF1B.	
<b>Species predicted to react based on 100% sequence homology:</b>	Dog	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human eIF1 protein.	
<b>Background</b>	Eukaryotic translation initiation factor 1 (eIF1) was first purified as a factor stimulating binding of Met-tRNA and mRNA to the ribosome (1,2). eIF1 is essential for growth in yeast and two classes of mutations in yeast eIF1 indicate a role for this protein in ensuring accurate translation initiation site selection (3). It has been demonstrated that eIF1 expression is stress-inducible, suggesting that modulation of translation initiation occurs during cellular stress (4).	
<b>Background References</b>	1. Schreier, M.H. et al. (1977) <i>J Mol Biol</i> 116, 727-53. 2. Trachsel, H. et al. (1977) <i>J Mol Biol</i> 116, 755-67. 3. Yoon, H.J. and Donahue, T.F. (1992) <i>Mol Cell Biol</i> 12, 248-60. 4. Sheikh, M.S. et al. (1999) <i>J Biol Chem</i> 274, 16487-93.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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