Revision 1

Store at -20C

#12496

eIF1 (D7G3L) Rabbit mAb

Cell Signaling TECHNOLOGY®

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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:
W, IP	H M R Mk	Endogenous	13	Rabbit IgG	#P41567	10209

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100

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

eIF1 (D7G3L) Rabbit mAb recognizes endogenous levels of total eIF1 protein. Based upon sequence alignment, this antibody may cross-react with eIF1B.

Species predicted to react based on 100% sequence homology

Dog

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human eIF1 protein.

Background

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).

Background References

1. Schreier, M.H. et al. (1977) *J Mol Biol* 116, 727-53.
2. Trachsel, H. et al. (1977) *J Mol Biol* 116, 755-67.
3. Yoon, H.J. and Donahue, T.F. (1992) *Mol Cell Biol* 12, 248-60.
4. Sheikh, M.S. et al. (1999) *J Biol Chem* 274, 16487-93.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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