

**#2480** Store at -20°C

## eIF5 Antibody


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	58	Rabbit	#P55010	1983

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	eIF5 Antibody detects endogenous levels of total eIF5 protein.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a sequence surrounding Val417 of human eIF5. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	Eukaryotic translation initiation factor 5 (eIF5) is crucial for the assembly of translation initiation complex and plays an important role in protein synthesis (1). eIF5 interacts with the 43S initiation complex to stimulate hydrolysis of GTP bound to eIF2 (1-3). Studies suggest that eIF5 functions as the GTPase-activating protein (GAP) in the hydrolysis of GTP-bound eIF2 (4,5). This hydrolysis leads to the release of initiation factors from the 40S ribosomal subunit, which is a necessary step in the formation of the 80S initiation complex (1).	
<b>Background References</b>	1. Das, S. and Maitra, U. (2001) <i>Prog Nucleic Acid Res Mol Biol</i> 70, 207-31. 2. Chakrabarti, A. and Maitra, U. (1991) <i>J Biol Chem</i> 266, 14039-45. 3. Asano, K. et al. (2000) <i>Genes Dev</i> 14, 2534-46. 4. Das, S. et al. (2001) <i>J Biol Chem</i> 276, 6720-6. 5. Paulin, F.E. et al. (2001) <i>Curr Biol</i> 11, 55-9.	

<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>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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