# Store at -20C

# eIF4A1 Antibody



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

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 48	Source: Rabbit	UniProt ID: #P60842	Entrez-Gene Id: 1973	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sen	sitivity eIF4	eIF4A1 Antibody detects endogenous levels of total eIF4A1 protein.					
Source / Purifica	sequ	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a sequence around Gly12 of human eIF4A1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	A variety of factors contribute to the important biological event of initiation of translation. The eIF4F complex of translation initiation factors binds to the 5' m7 GTP cap to open up the mRNA secondary structure and allow small ribosome subunit binding (1). eIF4A, an eIF4 complex component that acts as an ATP-dependent RNA helicase, unwinds the secondary structure of the 5' mRNA untranslated region to mediate ribosome binding (2,3). In addition, eIF4A has recently been shown to repress Dpp/BMP signalling in a translation-independent manner in <i>Drosophila</i> (4,5).						
Background Ref	2. R 3. S 4. Li	ogers, G.W. et al. (2001) <i>J. Biol. Chem.</i> 276, 12598-12608. ogers, G.W. et al. (1999) <i>J. Biol. Chem.</i> 274, 12236-12244. vitkin, Y.V. et al. (2001) <i>RNA</i> 7, 382-394. , J. and Li, W.X. (2006) <i>Nat. Cell Biol.</i> 8, 1407-1414. ffolter, M. and Pyrowolakis, G. (2006) <i>Nat. Cell Biol.</i> 8, 1319-1321.					

### **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**

WB: Western Blotting

# **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

A. Aetiopus Z. Zebrainsii B. bovine by: dog Py: pig Sc. S. cerevisiae Ce. C. elegans HI:

GP: Guinea Pig Rab: rabbit All: all species expected

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