

#2297 Store at -20C

4E-T Antibody



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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	Endogenous	140	Rabbit	#Q9NRA8	56478

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	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.	
Specificity / Sensitivity	4E-T Antibody detects endogenous levels of total 4E-T protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human 4E-T. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	During translation, eIF4E binds to the 5' cap structure of mRNA and helps mRNA bind to the ribosome. There are several factors that associate with eIF4E. One of these factors is eIF4E-Transporter (4E-T) (1). 4E-T has an eIF4E binding site, a nuclear localization signal and two nuclear export signals (1). Studies demonstrate that 4E-T functions as a nucleocytoplasmic shuttling protein mediating the import of eIF4E into the nucleus (1). Recent findings indicate that 4E-T, along with eIF4E, is concentrated in the processing bodies (P-bodies) in the cytoplasm (2). Furthermore, 4E-T decreases mRNA stability (2).	
Background References	1. Dostie, J. et al. (2000) <i>EMBO J</i> 19, 3142-56. 2. Ferraiuolo, M.A. et al. (2005) <i>J. Cell Biol.</i> 170, 913-924.	

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