4E-T Antibody



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit	UniProt ID: #Q9NRA8	Entrez-Gene Id 56478
Product Usage Information	2	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 residues surrounding Ser949 of human 4E-T protein. 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.				
A	•					

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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