

THEX1 (D2B4) Rabbit mAb

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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 46	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IV48	Entrez-Gene Id: 90459
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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	THEX1 (D2B4) Rabbit mAb detects endogenous levels of total THEX1 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence around Gly338 of human THEX1.	
Background	THEX1 (3'hExo) is a 3' exonuclease that may play a role in the degradation of histone mRNA transcripts (1). A recently identified member of the DEDDh 3' exonuclease family, THEX1 binds the conserved stem-loop structure found at the 3' end of mRNA <i>in vitro</i> (2). The binding of THEX1 to mRNA requires the presence of a terminal ACCCA sequence and is enhanced by the concurrent binding of stem-loop binding protein (SLBP). Cleavage of histone mRNA by THEX1 exonuclease may help produce the rapid turnover of histone mRNA transcripts associated with the completion of DNA replication (3). Additional evidence suggests that THEX1 may be responsible for excising the remaining few 3' nucleotides following cleavage by a different enzyme (4).	
Background References	<ol style="list-style-type: none"> 1. Dominski, Z. and Marzluff, W.F. (1999) <i>Gene</i> 239, 1-14. 2. Dominski, Z. et al. (2003) <i>Mol Cell</i> 12, 295-305. 3. Yang, X.C. et al. (2006) <i>J Biol Chem</i> 281, 30447-54. 4. Mullen, T.E. and Marzluff, W.F. (2008) <i>Genes Dev</i> 22, 50-65. 	
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	
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