

#4055 Store at -20°C

# THEX1 (D66A11) Rabbit mAb



✓ 100 µl  
(10 western blots)

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rev. 02/16/10

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #90459  
Swiss-Prot Acc. #Q8IV48

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP Endogenous	H	46 kDa	Rabbit IgG**

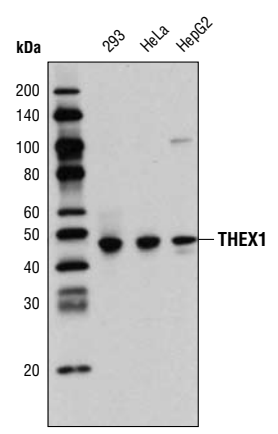
**Background:** THEX1 (3'hExo) is a 3' exonuclease that may play a role in the degradation of histone mRNA transcripts (1). A recently identified member of the DEDDh 3' exonuclease family, THEX1, binds the conserved stem-loop structure found at the 3' end of mRNA *in vitro* (2). The binding of THEX1 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).

**Specificity/Sensitivity:** THEX1 (D66A11) 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 Pro33 of human THEX1.

### Background References:

- (1) Dominski, Z. and Marzluff, W.F. (1999) *Gene* 239, 1–14.
- (2) Dominski, Z. et al. (2003) *Mol Cell* 12, 295–305.
- (3) Yang, X.C. et al. (2006) *J Biol Chem* 281, 30447–54.
- (4) Mullen, T.E. and Marzluff, W.F. (2008) *Genes Dev* 22, 50–65.



Western blot analysis of extracts from various cell lines using THEX1 (D66A11) Rabbit mAb.

**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.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

### Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.