

#14495 Store at -20°C

EDC3 (D2T7U) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	62	Rabbit IgG	#Q96F86	80153

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

EDC3 (D2T7U) Rabbit mAb recognizes endogenous levels of total EDC3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly322 of human EDC3 protein.

Background

Enhancer of mRNA decapping 3 (EDC3) was originally identified from *Saccharomyces cerevisiae* as a protein essential to mRNA decapping prior to 5'-3' mRNA degradation (1). In human cells, EDC3 is found within cytoplasmic processing (P) bodies as part of complexes that include DCP1, DCP2, EDC4/Ge-1, and DDX6/RCK (2). EDC3 and DCP2 interact with TTP, an activator of AU-rich-element (ARE)-mediated decay pathway, to promote decapping and degradation of ARE mRNA (2). In addition, research studies indicate that EDC3 may play a role in the premature termination of RNA polymerase II transcription (3).

Background References

1. Kshirsagar, M. and Parker, R. (2004) *Genetics* 166, 729-39.
2. Fenger-Grøn, M. et al. (2005) *Mol Cell* 20, 905-15.
3. Brannan, K. et al. (2012) *Mol Cell* 46, 311-24.

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 **IP:** Immunoprecipitation

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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