

EDC3 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit	UniProt ID: #Q96F86	Entrez-Gene Id: 80153
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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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

EDC3 Antibody recognizes endogenous levels of total EDC3 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly322 of human EDC3 protein. Antibodies are purified by protein A and peptide affinity chromatography.

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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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