

#2548
Store at -20C

EDC4/Ge-1 Antibody

**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IF-IC	H Mk	Endogenous	170	Rabbit	#Q6P2E9	23644

Product Usage Information

Application

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100 - 1:400

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

EDC4/Ge-1 Antibody detects endogenous levels of total EDC4/Ge-1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human EDC4/Ge-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Enhancer of mRNA decapping 4 (EDC4) was originally identified as the autoantigen Ge-1 from a Sjögren's syndrome patient later diagnosed with primary biliary cirrhosis (1). EDC4 (also known as HEDLS) was later identified as an essential component of cytoplasmic P-bodies responsible for mRNA decapping and degradation (2). Identified EDC4 protein is found as a pair of isoforms generated by alternative splicing and contains several WD domains and a putative nuclear localization signal. EDC4 co-localizes with other P-body decapping proteins such as DCP1A, DCP2 and GW182 (2,3). Experimental evidence suggests that EDC4 may be involved in miRNA-mediated translation repression (4).

Background References

1. Bloch, D.B. et al. (1994) *Clin Immunol Immunopathol* 72, 380-9.
2. Yu, J.H. et al. (2005) *RNA* 11, 1795-802.
3. Fenger-Grøn, M. et al. (2005) *Mol Cell* 20, 905-15.
4. Brodersen, P. et al. (2008) *Science* 320, 1185-90.

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 **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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