

#2548 Store at -20C

EDC4/Ge-1 Antibody



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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) <i>Clin Immunol Immunopathol</i> 72, 380-9. 2. Yu, J.H. et al. (2005) <i>RNA</i> 11, 1795-802. 3. Fenger-Grøn, M. et al. (2005) <i>Mol Cell</i> 20, 905-15. 4. Brodersen, P. et al. (2008) <i>Science</i> 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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