e at -20C	HERPUD1 Antibody		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#26730		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Mas	sachusetts 01923 USA	

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

	ctivity: Sensitivity: I R Mk Endogenous	MW (kDa): 54	Source: Rabbit	UniProt ID: #Q15011	Entrez-Gene Id: 9709			
Product Usage Information	Application Western Blotting			Dilution 1:1000				
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		HERPUD1 Antibody recognizes endogenous levels of total HERPUD1 protein. This antibody also cross- reacts with unidentified proteins of 30 kDa and 48 kDa. This antibody does not cross-react with HERPUD2 protein.						
Source / Purification	residues near the amine	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human HERPUD1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background Background References	membrane protein and pathway (1). HERPUD1 cytoplasm. The amino-t expression of HERPUD suggests that HERPUD demonstrate that HERP ligase HRD1, which ent toxic ERAD substrates ERAD machinery and th HERPUD1 expression of 1. Kokame, K. et al. (20 2. Schulze, A. et al. (20 3. Kny, M. et al. (2011) 4. Leitman, J. et al. (2004)	The homocysteine-responsive, ER-resident ubiquitin-like domain member 1 protein (HERPUD1) is an ER membrane protein and putative component of the ER-membrane-associated protein degradation (ERAD) pathway (1). HERPUD1 is a transmembrane protein with both amino- and carboxy-termini exposed to the cytoplasm. The amino-terminal HERPUD1 region contains an ubiquitin-like (UBL) domain (1). Increased expression of HERPUD1 protein following ER stress and its association with ERAD component proteins suggests that HERPUD1 may play an integral role in ERAD pathway function (1). Research studies demonstrate that HERPUD1 associates with components of the ERAD machinery, such as the E3 ubiquitin ligase HRD1, which enhances HRD1-mediated ubiquitination and proteasomal degradation of potentially toxic ERAD substrates (2-4). The HERPUD1 protein may act as a molecular adaptor for the recruitment of ERAD machinery and the amino-terminal UBL domain may important for this function (3,4). The loss of HERPUD1 expression renders cells more susceptible to ER stress and apoptosis (5,6). Kokame, K. et al. (2000) <i>J Biol Chem</i> 275, 32846-53. Schulze, A. et al. (2001) <i>J Biol Chem</i> 275, 32846-53. Schulze, A. et al. (2001) <i>J Biol Chem</i> 275, 32846-53. Kny, M. et al. (2011) <i>J Biol Chem</i> 275, 1050-60. Hori, O. et al. (2004) <i>Genes Cells</i> 9, 457-69. Chan, S.L. et al. (2004) <i>J Biol Chem</i> 279, 28733-43.						
Species Reactivity	Species reactivity is dete	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	ons Key WB: Western Blotting							
Cross-Reactivity Key	 vity 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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Limited Uses								

HERPUD1 Antibody (#26730) Datasheet Without Images Cell Signaling Technology

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