e at -20C	Calnexin Antibody		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
33		Support:	877-678-TECH (8324)	
2433		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Mas	sachusetts 01923 USA	

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

Applications: WB, IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90	Source: Rabbit	UniProt ID: #P27824	Entrez-Gene Id: 821			
Product Usage Information	W	pplication /estern Blotting nmunohistochemistry	· · · ·	t e ()	1: 1:	ilution 1000 50 - 1:200			
Storage	Su	Immunofluorescence (Immunocytochemistry) 1:50 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store 20°C. Do not aliguot the antibody.							
Specificity / Sensitivity		Calnexin Antibody detects endogenous levels of total calnexin protein.							
Source / Purificati	se	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a sequence around Ala51 of human calnexin. Antibodies are purified by protein A and peptide affinity chromatography.							
Background		Secretory and transmembrane proteins are synthesized on polysomes and translocate into the endoplasmic reticulum (ER) where they are often modified by the formation of disulfide bonds, amino- linked glycosylation and folding. To help proteins fold properly, the ER contains a pool of molecular chaperones including calnexin. Calnexin was first identified as being involved in the assembly of murine class I histocompatibility molecules (1,2). Calnexin is a calcium-binding protein embedded in the ER membrane that retains the newly synthesized glycoproteins inside the ER to ensure proper folding and quality control (3-5). The specificity of calnexin for a subset of glycoproteins is defined by a lectin site, which binds an early oligosaccharide intermediate on the folding glycoprotein (5).							
Background Refer	2. / 3. 4.	 Degen, E. and Williams, D.B. (1991) J. Cell Biol. 112, 1099-1115. Ahluwalia, N. et al. (1992) J. Biol. Chem. 267, 10914-10918. Rajagopalan, S. et al. (1994) Science 263, 387-390. Bergeron, J.J. et al. (1994) Trends Biochem. Sci. 19, 124-128. Williams, D.B. (2006) J. Cell Sci. 119, 615-623. 							
Species Reactivity	/ Spe	ecies reactivity is deter	rmined by testing ir	n at least one appro	ved application (e.g., we	estern 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		B: Western Blotting IH IC: Immunofluorescer							
Cross-Reactivity F	X:>	 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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Calnexin Antibody (#2433) Datasheet Without Images Cell Signaling Technology

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