

## **Calnexin Antibody**



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

Applications:ReactivW, IHC-P, IF-ICH	ity: Sensitivity: Endogenous	<b>MW (kDa):</b> 90	Source/Isotype: Rabbit	UniProt ID: #P27824	Entrez-Gene Id: 821	
Product Usage Information	<b>Application</b> Western Blotting Immunohistochemis Immunofluorescence	• •	iistry)	1 1	<b>Pilution</b> :1000 :50 - 1:200 :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	Calnexin Antibody de	Calnexin Antibody detects endogenous levels of total calnexin protein.				
Source / Purification		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	endoplasmic reticulu linked glycosylation a chaperones including murine class I histoco the ER membrane tha folding and quality co	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 References	2. Ahluwalia, N. et al. 3. Rajagopalan, S. et a 4. Bergeron, J.J. et al.	<ol> <li>Degen, E. and Williams, D.B. (1991) J. Cell Biol. 112, 1099-1115.</li> <li>Ahluwalia, N. et al. (1992) J. Biol. Chem. 267, 10914-10918.</li> <li>Rajagopalan, S. et al. (1994) Science 263, 387-390.</li> <li>Bergeron, J.J. et al. (1994) Trends Biochem. Sci. 19, 124-128.</li> <li>Williams, D.B. (2006) J. Cell Sci. 119, 615-623.</li> </ol>				
Species Reactivity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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		<b>W:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key	<b>H:</b> Human	H: Human				
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