#12238 Store at -20C

## Calreticulin (D3E6) XP® Rabbit



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<b>Applications: I</b> WB, IF-IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 55	Source/Isotype: Rabbit IgG	UniProt ID: #P27797	Entrez-Gene Id: 811	
Product Usage Information	Aŗ	pplication		Dilution			
	We	estern Blotting			1:1000		
	Im	munofluorescence (	Immunocytochen	1:200 - 1:800			
	Flo	ow Cytometry (Fixed	l/Permeabilized)	1:400 - 1:1600			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	a carrier free (BSA	and azide free) v	ee product #26704.			
Specificity / Sensitiv	con	Calreticulin (D3E6) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total calreticulin protein. Under conditions such as immunogenic cell death when calreticulin is presented on the cell surface, this antibody can be used to detect calreticulin on live cells.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic pept residues near the amino terminus of human calreticulin protein.				esponding to	
Background	met reti rele pro doe Fur	Calcium is a universal signaling molecule involved in many cellular functions, such as cell motility, metabolism, protein modification, protein folding, and apoptosis. Calcium is stored in the endoplasmic reticulum (ER), where it is buffered by calcium binding chaperones such as calnexin and calreticulin, and is released via the IP <sub>3</sub> Receptor channel (1). Calreticulin also functions as an ER chaperone that ensures proper folding and quality control of newly synthesized glycoproteins. As such, calreticulin presumably does not alter protein folding but regulates proper timing for efficient folding and subunit assembly. Furthermore, calreticulin retains proteins in non-native conformation within the ER and targets them for degradation (2,3).					
Background Referen	2. N	<ol> <li>Groenendyk, J. et al. (2004) Mol Cells 17, 383-9.</li> <li>Nauseef, W.M. et al. (1995) J Biol Chem 270, 4741-7.</li> <li>Williams, D.B. (2006) J Cell Sci 119, 615-23.</li> </ol>					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

 $IMPORTANT: For western \ blots, incubate \ membrane \ with \ diluted \ primary \ antibody \ in \ 5\% \ w/v \ nonfat \ dry$ 

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

**FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**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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