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Calreticulin (D3E6) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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

Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P27797	Entrez-Gene Id: 811	
Product Usage Information		Application Flow Cytometry (Fixed/Permeabilized)			Dilution 1:50	
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensi	tivity	Calreticulin (D3E6) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous levels of tot calreticulin protein. Under conditions such as immunogenic cell death when calreticulin is presented the cell surface, this antibody can be used to detect calreticulin on live cells.				
Source / Purifica	tion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human calreticulin protein.				
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Calreticulin (D3E6) XP [®] Rabbit mAb #12238.				
Background		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 ₃ 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 Ref	erences	1. Groenendyk, J. et al. (2004) <i>Mol Cells</i> 17, 383-9. 2. Nauseef, W.M. et al. (1995) <i>J Biol Chem</i> 270, 4741-7. 3. Williams, D.B. (2006) <i>J Cell Sci</i> 119, 615-23.				
Species Reactivit	ty	Species reactivity is deter	mined by testing in at lea	ast one approved ap	plication (e.g., western blot).	
Applications Key	,	FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity	Key	H: Human M: Mouse R: Rat				
Trademarks and	Patents	Cell Signaling Technology	y is a trademark of Cell Si	gnaling Technology,	Inc.	
		Alexa Fluor is a registered trademark of Life Technologies Corporation.				
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