7993

Calreticulin (D3E6) XP[®] Rabbit mAb (HRP Conjugate)



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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #P27797	Entrez-Gene Id: 811		
Product Usage Information		Application Western Blotting		Dilution 1:1000				
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		Calreticulin (D3E6) XP [®] Rabbit mAb (HRP Conjugate) recognizes endogenous levels of total calreticulin protein.						
Source / Purific	Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide correspon residues near the amino terminus of human calreticulin protein.					prresponding to		
Description		This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated 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 Re	eferences	1. Groenendyk, J. et al. 2. Nauseef, W.M. et al. 3. Williams, D.B. (2006	(1995) J Biol Chem	270, 4741-7.				
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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