ZIP7/SLC39A7 (D1O3A) Rabbit mAb					Cell Signaling TECHNOLOGY* Orders: 877-616-CELL (2355)		
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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #Q92504	Entrez-Gene Id: 7922	
Product Usage Information	Δr	plication			Dilution		
	•	Western Blotting			1:1000		
		Immunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sens	itivity ZIP	ZIP7/SLC39A7 (D1O3A) Rabbit mAb recognizes endogenous levels of total ZIP7 protein.					
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu201 of human ZIP7 protein.					
Background	pro cyte cell res obs	The solute carrier family 39 (zinc transporter) member 7 (SLC39A7, ZIP7) is an ER and Golgi membrane protein that regulates cellular zinc homeostasis by controlling release of zinc from these organelles to the cytoplasm (1,2). Zinc release mediated by ZIP7 results in activation of protein kinases that are involved in cell proliferation and migration (3,4). The protein kinase CK2 phosphorylates and activates ZIP7 in response to extracellular signals, such as growth factor stimulation (4,5). Increased expression of ZIP7 is observed in breast cancer tissues (6). Research studies indicate that ZIP7 is responsible for activation of multiple tyrosine kinases in aggressive, tamoxifen-resistant breast cancer (7,8).					
Background Refe	2. H 3. H 4. T 5. T 6. T 7. T	 Taylor, K.M. et al. (2004) <i>Biochem J</i> 377, 131-9. Huang, L. et al. (2005) <i>J Biol Chem</i> 280, 15456-63. Hogstrand, C. et al. (2009) <i>Trends Mol Med</i> 15, 101-11. Taylor, K.M. et al. (2012) <i>Cell Cycle</i> 11, 1863-4. Taylor, K.M. et al. (2012) <i>Sci Signal</i> 5, ra11. Taylor, K.M. (2008) <i>Biochem Soc Trans</i> 36, 1247-51. Taylor, K.M. et al. (2007) <i>Mol Med</i> 13, 396-406. Taylor, K.M. et al. (2008) <i>Endocrinology</i> 149, 4912-20. 					
Species Reactivit	y Spec	cies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buff		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	WB	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity				Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster og Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse es expected			
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