

ZIP7/SLC39A7 (D1O3A) Rabbit mAb



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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #Q92504	Entrez-Gene Id: 7922
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 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/Sensitivity		ZIP7/SLC39A7 (D1O3A) Rabbit mAb recognizes endogenous levels of total ZIP7 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu201 of human ZIP7 protein.				
Background		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 Re	eferences	1. Taylor, K.M. et al. (2004) <i>Biochem J</i> 377, 131-9. 2. Huang, L. et al. (2005) <i>J Biol Chem</i> 280, 15456-63. 3. Hogstrand, C. et al. (2009) <i>Trends Mol Med</i> 15, 101-11. 4. Taylor, K.M. et al. (2012) <i>Cell Cycle</i> 11, 1863-4. 5. Taylor, K.M. et al. (2012) <i>Sci Signal</i> 5, ra11. 6. Taylor, K.M. (2008) <i>Biochem Soc Trans</i> 36, 1247-51. 7. Taylor, K.M. et al. (2007) <i>Mol Med</i> 13, 396-406. 8. Taylor, K.M. et al. (2008) <i>Endocrinology</i> 149, 4912-20.				

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 BSA, 1X

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

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse

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