۲۹ ZIP8/SLC39A8 (E3V8K) Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 65, 130	Source/Isotype: Rabbit IgG	UniProt ID: #Q9C0K1	Entrez-Gene Id: 64116	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence ((Immunocytochem	istry)	Dilution 1:1000 1:50 1:1600 - 1:3200		
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. <i>Do not aliquot the antibody.</i>					
Specificity/Sen	sitivity	ZIP8/SLC39A8 (E3V8K) Rabbit mAb recognizes endogenous levels of total ZIP8/SLC39A8 protein.					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala265 of human ZIP8/SLC39A8 protein.					
Background		Zinc transporter zinc-and iron-related protein 8 (ZIP8) is encoded by the <i>SLC39A8</i> gene and is a member of the solute carrier gene (SLC) superfamily (1). As a membrane protein, ZIP8 functions to transport manganese, cadmium, and zinc across the plasma membrane (2). Metal ions are essential elements that are required cofactors for proteins, including enzymes and transcription factors. Maintenance of proper metal ion homeostasis is required for normal mammalian tissue development and function. Mice lacking <i>SLC39A8</i> reveal a critical role of ZIP8 in organogenesis in multiple tissues, including the brain and kidney, during development (3,4). Mutations in <i>SLC39A8</i> are linked to autosomal-recessive forms of intellectual disability, suggesting that altered ZIP8-dependent metal ion regulation may contribute to human neuronal developmental diseases (5).					
Background Re	ferences	1. He, L. et al. (2009) <i>Hum Genomics</i> 3, 195-206. 2. He, L. et al. (2006) <i>Mol Pharmacol</i> 70, 171-80. 3. Avila, D.S. et al. (2013) <i>Met Ions Life Sci</i> 13, 199-227. 4. Gálvez-Peralta, M. et al. (2012) <i>PLoS One</i> 7, e36055. 5. Boycott, K.M. et al. (2015) <i>Am J Hum Genet</i> 97, 886-93.					
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivit	у Кеу	H: Human					
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