6 Store at -20C

AE1/SLC4A1 (D3X1R) Rabbit mAb



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 85-120	Source/Isotype: Rabbit IgG	UniProt ID: #P02730	Entrez-Gene Id: 6521
Product Usage Information	Ар	plication		Dilution		
	We	estern Blotting		1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensi	tivity AE1	AE1/SLC4A1 (D3X1R) Rabbit mAb recognizes endogenous levels of total AE1 protein.				
Source / Purificati	•	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala176 of human AE1 protein.				
Background	tran: the i whe for r sphe	Anion exchange protein 1 (AE1), also named solute carrier family 4 member 1 (SLC4A1), is an anion transporter that mediates chloride-bicarbonate exchange in the kidney and regulates normal acidification of the urine (1,2). A different isoform of AE1 is a major integral membrane structure protein of erythrocytes, where it plays a critical role in the removal of carbon dioxide from tissues (3). In addition, AE1 is required for normal flexibility and stability of the erythrocyte membrane. Mutations in <i>SLC4A1</i> can lead to hereditary spherocytosis, ovalocytosis, and distal renal tubular-acidosis (4-7). Other mutations that do not cause disease became novel blood group antigens, which are part of the Diego blood group system (8).				
Background Refer	2. K 3. S 4. Ja 5. M 6. Q 7. E	 Kopito, R.R. and Lodish, H.F. Nature 316, 234-8. Kollert-Jöns, A. et al. (1993) Am J Physiol 265, F813-21. Swenson, E.R. et al. (1993) J Appl Physiol (1985) 74, 838-48. Jarolim, P. et al. (1991) Proc Natl Acad Sci U S A 88, 11022-6. Maillet, P. et al. (1995) Br J Haematol 91, 804-10. Quilty, J.A. et al. (2002) Am J Physiol Renal Physiol 282, F810-20. Escobar, L. et al. (2013) Nefrologia 33, 289-96. Figueroa, D. (2013) Immunohematology 29, 73-81. 				

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

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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