

## Datasheet for ABIN967274 anti-SLC39A4 antibody (C-Term)

3 Publications



Overview

Quantity:	0.1 mg
Target:	SLC39A4
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC39A4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)
Product Details	
Immunogen:	Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to
	C-terminal residues of human ZIP4 (Zinc transporter ZIP4)
Target Details	
Target:	SLC39A4
Alternative Name:	ZIP4 (SLC39A4 Products)
Background:	ZIP4 (Zinc transporter ZIP4) plays an important role in cellular zinc homeostasis as a zinc
	transporter. ZIP4 is regulated in response to zinc availability. ZIP4 is a multi-pass membrane
	protein and is colocalized with TFRC in the recycling endosomes. ZIP4 cycles between
	endosomal compartments and the plasma membrane in response to zinc availability. ZIP4 is
	highly expressed in kidney, small intestine, stomach, colon, jejunum and duodenum. Defects in

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	SLC39A4 are the cause of acrodermatitis enteropathica zinc-deficiency type (AEZ). AEZ is a
	rare autosomal recessive disease caused by the inability to absorb sufficient zinc. The clinicals
	features are growth retardation, immune system dysfunction, alopecia, severe dermatitis,
	diarrhea and occasionally mental disorders. All these manifestations are reversible with zinc
	supplementation. Without zinc therapy this disease is fatal. ZIP4 belongs to the ZIP transporter
	(TC 2.A.5) family.
	Synonyms: SLC39A4 (Solute carrier family 39 member 4), ZIP-4 (Zrt- and Irt-like protein 4)
Pathways:	Transition Metal Ion Homeostasis, Autophagy
Application Details	
Restrictions:	For Research Use only
Handling	
Storage:	4 °C
Publications	
Product cited in:	Kim, Wang, Dufner-Beattie, Andrews, Eide, Petris: "Zn2+-stimulated endocytosis of the mZIP4
	zinc transporter regulates its location at the plasma membrane." in: The Journal of biological
	<b>chemistry</b> , Vol. 279, Issue 6, pp. 4523-30, (2004) (PubMed).
	Küry, Dréno, Bézieau, Giraudet, Kharfi, Kamoun, Moisan: "Identification of SLC39A4, a gene
	involved in acrodermatitis enteropathica." in: <b>Nature genetics</b> , Vol. 31, Issue 3, pp. 239-40, (
	2002) (PubMed).
	Wang, Zhou, Kuo, Zemansky, Gitschier: "A novel member of a zinc transporter family is
	defective in acrodermatitis enteropathica." in: American journal of human genetics, Vol. 71,
	Issue 1, pp. 66-73, (2002) (PubMed).