

## Datasheet for ABIN7581975 anti-SLC30A4 antibody (Intracellular)



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UVPI	

Quantity:	50 µL
Target:	SLC30A4
Binding Specificity:	AA 33-47, Intracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC30A4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB)

## Product Details

Purpose:	A Rabbit Polyclonal antibody to GPRC5B receptor
Immunogen:	(C)DEVSDEGLSRFNKLR, corresponding to amino acid residues 33 - 47 of rat SLC30A4
Sequence:	(C)DEVSDEGLSR FNKLR
lsotype:	lgG
Specificity:	Intracellular, N-terminus
Predicted Reactivity:	Mouse - identical, Human - 13 out of 15 amino acid residues identical
Characteristics:	Anti-ZnT4 (SLC30A4) Antibody (ABIN7581975) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot and immunohistochemistry applications. It has been designed to recognize ZnT4 from rat, mouse and human samples.
Purification:	Affinity purified on immobilized antigen.

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Target Details	
Target:	SLC30A4
Alternative Name:	SLC30A4 (SLC30A4 Products)
Background:	Zinc transporter 4, Solute carrier family 30 member 4,ZnT4 (also known as Zinc transporter 4
	and SLC30A4) is a member of the ZnT family of zinc transporters.Zinc transporters tightly
	regulate zinc homeostasis. Zinc participates in physiological functions such as DNA synthesis,
	neurotransmission and brain development. Protein-bound zinc stabilizes and functionalizes
	proteins, while free zinc acts as a signaling molecule. Zinc defficiency leads to mental lethargy,
	growth retardation and immune dysfunction, while zinc overload can affect the function of
	lymphocytes and cause copper deficiency. 1Zinc transporters are classified into two families:
	The ZnT (SLC30) family and the ZIP (SLC39) family. Most ZnT proteins form homodimers and
	have six transmembrane domains, with a long His-rich loop between these domains, which
	may function as a sensor of cytosolic zinc levels. The C- and N- termini of ZnTs are located
	inside the cytoplasm. ZnT proteins are efflux transporters that reduce cytosolic zinc by
	transporting it out of the cell or into intracellular compartments. In contrast, ZIP proteins are
	influx transporters that form homodimers or hetrodimers. They have eight transmembrane
	domains, and their C- and N- termini are both located outside the plasma membrane or in the
	lumen of a subcellular compartment.2ZnT4 is widely expressed in humans, with notable
	enrichment in the brain as well as several other organs, including the thyroid, lung, testis, heart,
	skin and pancreas. ZnT4 is expressed in endosomes/lysosomes, the Golgi apparatus and
	cytoplasmic vesicles, where it is involved in vesicular secretory functions.3There is increasing
	evidence that zinc transporters are connected with the formation of senile plaques in
	Alzheimer's Disease (AD). Abundant expression and altered distribution of ZnT4 was present in
	the entire body of the senile plaques of APP/PS1 mice and human AD brains.1 Also, it has been
	shown that ZnT4 mutant mice develop balance and spatial memory behavioral
	abnormalities.4Expression of ZnT4 in the mammary gland has been reported in mouse, where
	it has been shown to cause the lethal milk syndrome (LMS). Mice with LMS are not zinc
	deficient but females cannot produce milk containing sufficient zinc for the pups to survive. 4
Gene ID:	64469
UniProt:	055174
Pathways:	Transition Metal Ion Homeostasis
Application Details	
Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody

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Application Details	
	Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:200 Application Dilutions Western blot wb: 1:400-1:500
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).