

Basic Information

Product Name	Anti-SLC30A4 Antibody	
Gene Name	SLC30A4	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SLC30A4(407-427aa TIQLQSYRQEVDRTCANCQSS), different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids.	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	47KD	
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Zinc transporter 4, also called SLC30A4 or ZNT4 is a protein that in humans is encoded by the SLC30A4 gene. SLC30A4, or ZNT4 belongs to the ZNT family of zinc transporters. This gene is mapped to 15q21.1. Zinc is the second most abundant trace metal in the human body. It is an essential element, serving both a structural role, as in the formation of zinc fingers in DNA-binding proteins, and a catalytic role in metalloenzymes, such as pancreatic carboxypeptidases, alkaline phosphatases, various dehydrogenases, and superoxide dismutases. ZNTs are involved in transporting zinc out of the cytoplasm and have similar structures, consisting of 6 transmembrane domains and a histidine-rich cytoplasmic loop.

Selected Validation Data

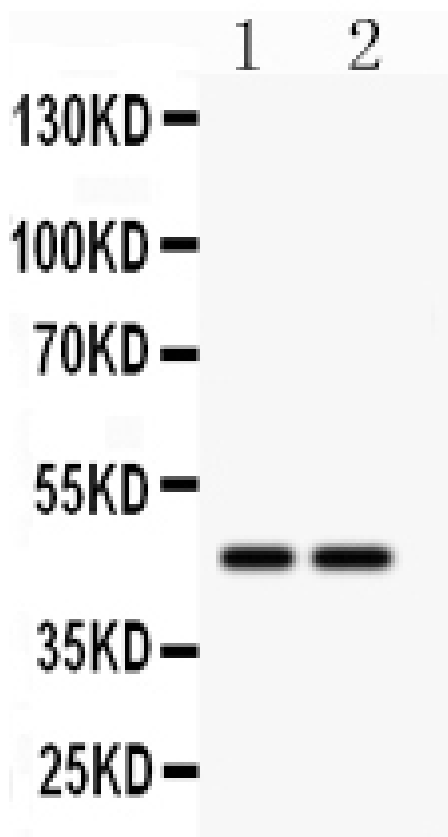


Figure 1. Western blot analysis of Anti-SLC30A4 antibody (BA3484). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: MCF-7 whole cell lysates, Lane 2: A549 whole cell lysates, Use rabbit Anti-SLC30A4 1:1000, probed with a goat Anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for SLC30A4 at approximately 47KD. The expected band size for SLC30A4 is at 47KD.

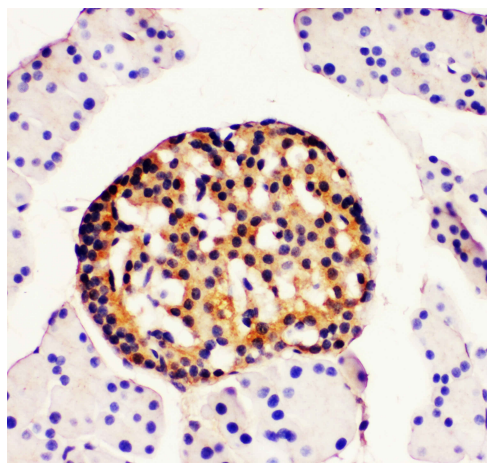


Figure 2. IHC analysis using Anti-SLC30A4 antibody (BA3484) detected in paraffin-embedded section of rat pancreas tissue. Biotinylated goat Anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.