

Anti-SLC7A9 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat)
Molecular Weight:	Theoretical: 53 kDa. Actual: 26 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Recombinant human SLC7A9 protein, N-Trx-His Primary: Anti-SLC7A9 (TMAB-12915) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 53 kDa Observed band size: 26 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: human SLC7A9 protein
Antigen Species:	Human
Gene ID:	11136
Uniprot ID:	P82251

Research Background

SLC7A9 belongs to the amino acid-polyamine-organocation (APC) superfamily. It is a disulfide linked heterodimer with the amino acid transport protein SLC3A1. SLC7A9 is involved in the high affinity, sodium independent transport of cystine and neutral and dibasic amino acids (system b(0,+)-like activity). Thought to be responsible for the high affinity reabsorption of cystine in the kidney tubule. Defects in SLC7A9 are a cause of non type I cystinuria (CSNU). CSNU arises from impaired transport of cystine and dibasic amino acids through the epithelial cells of the renal tubule and gastrointestinal tract. Three types of cystinuria have been described: type I (fully recessive or silent); type II (high excretor); type III (moderate excretor). Defects in SLC7A9 are associated with type II and type III cystinuria. They also might account for some non classic type I cystinuria cases.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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