

## Anti-SLC5A8 Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted:Human,Mouse,Chicken,Dog,Cow)
Molecular Weight:	Theoretical: 67 kDa. Actual: 70 kDa.
Purification:	Protein A purified

## Applications

Verified Activity:	Sample: Thyroid gland (Rat) Lysate at 40 µg Primary: Anti-SLC5A8 (TMAB-12911) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 67 kD Observed band size: 70 kD
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:	KLH conjugated synthetic peptide: human SLC5A8
Antigen Species:	Human
Gene ID:	160728
Uniprot ID:	Q8N695

## Research Background

Acts as an electrogenic sodium (Na<sup>+</sup>) and chloride (Cl<sup>-</sup>)-dependent sodium-coupled solute transporter, including transport of monocarboxylates (short-chain fatty acids including L-lactate, D-lactate, pyruvate, acetate, propionate, valerate and butyrate), lactate, monocarboxylate drugs (nicotinate, benzoate, salicylate and 5-aminosalicylate) and ketone bodies (beta-D-hydroxybutyrate, acetoacetate and alpha-ketoisocaproate), with a Na<sup>+</sup>:substrate stoichiometry of between 4:1 and 2:1. Catalyzes passive carrier mediated diffusion of iodide. Mediates iodide transport from the thyrocyte into the colloid lumen through the apical membrane. May be responsible for the absorption of D-lactate and monocarboxylate drugs from the intestinal tract. Acts as a tumor suppressor, suppressing colony formation in colon cancer, prostate cancer and glioma cell lines. May play a critical role in the entry of L-lactate and ketone bodies into neurons by a process driven by an electrochemical Na<sup>+</sup> gradient and hence contribute to the maintenance of the energy status and function of neurons.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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