



# Anti-SLC30A8 (aa 268-359) monoclonal antibody, clone 926140 (CABT-B8539)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	E. coli-derived recombinant human ZnT-8 Lys268-Pro359
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	926140
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC, ELISA
<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL
<b>Format</b>	Lyophilized
<b>Size</b>	100 µg
<b>Preservative</b>	None
<b>Storage</b>	12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 6 months, -20 to -70°C under sterile conditions after reconstitution.

## BACKGROUND

## Introduction

ZnT-8 (Zinc Transporter 8; also SLC30A8) is a 35-40 kDa member of the SLC (solute carrier)-30A subfamily, CDF family of proteins. It is expressed by pancreatic beta -cells and alpha -cells, B cells, and adipocytes and is known to play a role in Zn transport. In particular, ZnT-8 appears to transport zinc from the cytosol into secretory vesicles which, in the case of beta -cells, provides a necessary component for proper insulin processing and granule storage. Furthermore, it appears to facilitate glucose-mediated insulin release. Human ZnT-8 is a multipass transmembrane (TM) protein that is 369 amino acids (aa) in length. It contains an N-terminal cytoplasmic region (aa 1-79) followed by six TM segments (aa 80-266) and a 103 aa C-terminal cytoplasmic tail. There is a key His-rich motif in the second cytoplasmic loop (aa 197-205). ZnT-8 forms homodimers and possibly oligomers.

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## GENE INFORMATION

Entrez Gene ID	<a href="#">169026</a>
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UniProt ID	<a href="#">Q8IWU4</a>
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