abcam

Product datasheet

Recombinant Human SLC6A20 protein ab162821

1 Image

Description

Product name	Recombinant Human SLC6A20 protein
Expression system	Wheat germ
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	KATFNYENCLKKVSLLLTNTFDLEDGFLTASNLEQVKGYL ASAYPSKYSE MFPQIKNCSLESELDTAVQ
Amino acids	301 to 369
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab162821** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot
Form	Liquid
Additional notes	

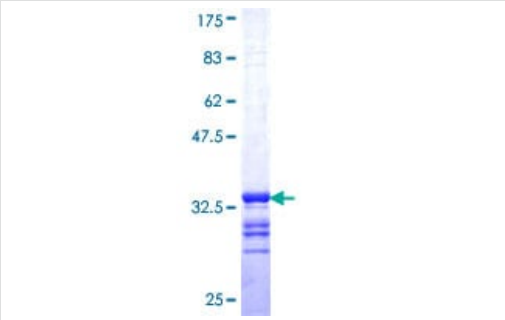
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Mediates the calcium-dependent uptake of imino acids such as L-proline, N-methyl-L-proline and pipecolate as well as N-methylated amino acids. Involved in the transport of glycine.
Tissue specificity	Kidney and small intestine. Expressed in the S3 segment of the proximal tubule.
Involvement in disease	Defects in SLC6A20 are a cause of hyperglycinuria (HG) [MIM:138500]. It is a condition characterized by excess of glycine in the urine. In some cases it is associated with renal colic and renal oxalate stones. Defects in SLC6A20 are a cause of iminoglycinuria (IG) [MIM:242600]. It is a disorder of renal tubular reabsorption of glycine and imino acids (proline and hydroxyproline), marked by excessive levels of all three substances in the urine. Note=Haploinsufficiency of SLC6A20 combined with deficiency of the neutral amino acid transporter SLC6A19 or partially inactivating mutations in SLC36A2, is responsible for iminoglycinuria. Additional polymorphisms and mutations in SLC6A18 can contribute to the IG phenotype in some families.
Sequence similarities	Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A20 subfamily.
Cellular localization	Apical cell membrane. Located in the apical brush border membrane of kidney proximal tubule cells.

Images



SDS-PAGE - Recombinant Human SLC6A20 protein (ab162821)

ab162821 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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