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SLC13A2 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP12824a

Specification

SLC13A2 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q13183

SLC13A2 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 9058

Other Names
Solute carrier family 13 member 2, Na(+)/dicarboxylate cotransporter 1, NaDC-1, Renal sodium/dicarboxylate cotransporter, SLC13A2, NADC1, SDCT1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SLC13A2 Antibody (N-term) Blocking peptide - Protein Information

Name SLC13A2

Synonyms NADC1, SDCT1

Function
Low-affinity sodium-dicarboxylate cotransporter, that mediates the entry of citric acid cycle intermediates, such as succinate, citrate, fumarate and alpha-ketoglutarate (2-oxoglutarate) into the small intestine and renal proximal tubule (PubMed:10894787, PubMed:9668069, PubMed:8967342). Transports the dicarboxylate into the cell with a probable stoichiometry of 3 Na(+) for 1 divalent dicarboxylate, rendering the process electrogenic (PubMed:8967342, PubMed:9668069, PubMed:10894787). Citrate is transported in protonated form as a divalent anion, rather than the trivalent form which is normally found in blood (PubMed:10894787). Has a critical role in renal dicarboxylate transport (By similarity).

Cellular Location
Apical cell membrane; Multi-pass membrane protein

Tissue Location
Expressed in kidney and intestine (PubMed:8967342). In kidney expressed in the proximal tubule (at protein level) (PubMed:27927654).

SLC13A2 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SLC13A2 Antibody (N-term) Blocking peptide - Images

SLC13A2 Antibody (N-term) Blocking peptide - Background

Cotransport of sodium ions and dicarboxylates such as succinate and citrate.

SLC13A2 Antibody (N-term) Blocking peptide - References

Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :Weerachayaphorn, J., et al. Biochemistry 47(3):1087-1093(2008)Okamoto, N., et al. Int. J. Urol. 14(4):344-349(2007)Pajor, A.M. Pflugers Arch. 451(5):597-605(2006)Pajor, A.M., et al. J. Biol. Chem. 280(19):18728-18735(2005)