

SLC24A1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16099a**Specification**

SLC24A1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O60721](#)**SLC24A1 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 9187

Other Names

Sodium/potassium/calcium exchanger 1, Na(+)/K(+)/Ca(2+)-exchange protein 1, Retinal rod Na-Ca+K exchanger, Solute carrier family 24 member 1, SLC24A1, KIAA0702, NCKX1

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.

SLC24A1 Antibody (N-term) Blocking Peptide - Protein Information**Name** SLC24A1 {ECO:0000303|PubMed:20850105, ECO:0000312|HGNC:HGNC:10975}**Function**

Calcium, potassium:sodium antiporter that transports 1 Ca(2+) and 1 K(+) in exchange for 4 Na(+) (PubMed:26631410). Critical component of the visual transduction cascade, controlling the calcium concentration of outer segments during light and darkness (PubMed:20850105). Light causes a rapid lowering of cytosolic free calcium in the outer segment of both retinal rod and cone photoreceptors and the light-induced lowering of calcium is caused by extrusion via this protein which plays a key role in the process of light adaptation (PubMed:20850105).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Expressed in the retina, particularly in the inner segment, outer and inner nuclear layers, and ganglion cell layer

SLC24A1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC24A1 Antibody (N-term) Blocking Peptide - Images

SLC24A1 Antibody (N-term) Blocking Peptide - Background

SLC24A1 belongs to a family of potassium-dependent sodium/calcium exchangers. Members of this family have 2 large hydrophilic loops and 2 sets of multiple transmembrane-spanning segments (Schnetkamp, 2004 [PubMed 14770312]).

SLC24A1 Antibody (N-term) Blocking Peptide - References

Riazuddin, S.A., et al. Am. J. Hum. Genet. 87(4):523-531(2010) Kamatani, Y., et al. Nat. Genet. 42(3):210-215(2010) Wu, C., et al. Proteomics 7(11):1775-1785(2007) Schnetkamp, P.P. Pflugers Arch. 447(5):683-688(2004) Kang, K., et al. Biochemistry 42(15):4593-4600(2003)