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STRA6 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9433b

Specification

STRA6 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9BX79

STRA6 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 64220

Other Names
Stimulated by retinoic acid gene 6 protein homolog, STRA6

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.

STRA6 Antibody (C-term) Blocking Peptide - Protein Information

Name STRA6

Function
Functions as a retinol transporter. Accepts all-trans retinol from the extracellular retinol-binding protein RBP4, facilitates retinol transport across the cell membrane, and then transfers retinol to the cytoplasmic retinol-binding protein RBP1 (PubMed:9452451, PubMed:18316031, PubMed:22665496). Retinol uptake is enhanced by LRAT, an enzyme that converts retinol to all-trans retinyl esters, the storage forms of vitamin A (PubMed:18316031, PubMed:22665496). Contributes to the activation of a signaling cascade that depends on retinol transport and LRAT-dependent generation of retinol metabolites that then trigger activation of JAK2 and its target STAT5, and ultimately increase the expression of SOCS3 and inhibit cellular responses to insulin (PubMed:21368206, PubMed:22665496). Important for the homeostasis of vitamin A and its derivatives, such as retinoic acid (PubMed:18316031). STRA6-mediated transport is particularly important in the eye, and under conditions of dietary

vitamin A deficiency (Probable). Does not transport retinoic acid (PubMed:18316031).

Cellular Location
Cell membrane; Multi-pass membrane protein. Note=In the retinal pigment epithelium localizes to the basolateral membrane. {ECO:0000250|UniProtKB:Q0V8E7}

Tissue Location
Broad expression. In adult eye expressed in sclera, retina, retinal pigment epithelium, and trabecular meshwork but not in choroid and iris.

STRA6 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

STRA6 Antibody (C-term) Blocking Peptide - Images

STRA6 Antibody (C-term) Blocking Peptide - Background

STRA6 is a membrane protein involved in the metabolism of retinol. The encoded protein acts as a receptor for retinol/retinol binding protein complexes. This protein removes the retinol from the complex and transports it across the cell membrane. Defects in this gene are a cause of syndromic microphthalmia type 9 (MCOPS9).

STRA6 Antibody (C-term) Blocking Peptide - References

Chassaing, N., et al. Hum. Mutat. 30 (5), E673-E681 (2009) West, B., et al. Am. J. Med. Genet. A 149A (3), 539-542 (2009) Kawaguchi, R., et al. J. Biol. Chem. 283(22):15160-15168(2008)Isken, A., et al. Cell Metab. 7(3):258-268(2008)White, T., et al. Mol. Vis. 14, 2458-2465 (2008)