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Rat Stra6 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18757b

Specification

Rat Stra6 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q4QR83
Other Accession	NP_001025095.1
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**483-509**

Rat Stra6 Antibody (C-term) - Additional Information

Gene ID 363071

Other Names
Stimulated by retinoic acid gene 6 protein homolog, Stra6

Target/Specificity
This Rat Stra6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 483-509 amino acids from the C-terminal region of rat Stra6.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Rat Stra6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Rat Stra6 Antibody (C-term) - 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. Retinol uptake is enhanced by

LRAT, an enzyme that converts retinol to all-trans retinyl esters, the storage forms of vitamin A. 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. Important for the homeostasis of vitamin A and its derivatives, such as retinoic acid. STRA6-mediated transport is particularly important in the eye, and under conditions of dietary vitamin A deficiency. Does not transport retinoic acid.

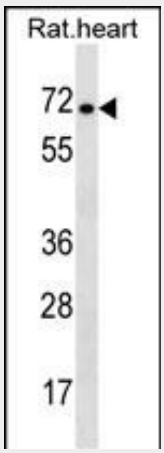
Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q0V8E7}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q0V8E7}. Note=In the retinal pigment epithelium localizes to the basolateral membrane {ECO:0000250|UniProtKB:Q0V8E7}

Rat Stra6 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Rat Stra6 Antibody (C-term) - Images



Rat Stra6 Antibody (C-term)(Cat. #AP18757b) western blot analysis in rat heart tissue lysates (35ug/lane).This demonstrates the Stra6 antibody detected the Stra6 protein (arrow).

Rat Stra6 Antibody (C-term) - Background

Stra6 may act as a high-affinity cell-surface receptor for the complex retinol-retinol binding protein (RBP/RBP4). Acts by removing retinol from RBP/RBP4 and transports it across the plasma membrane, where it can be metabolized. This mechanism does not depend on endocytosis. Binds to RBP/RBP4 with high affinity. Increases cellular retinol uptake from the retinol-RBP complex (By similarity).

Rat Stra6 Antibody (C-term) - References

Strausberg, R.L., et al. Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903(2002)