10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

OST alpha Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9838b

Product Information

Application	WB, FC, E
Primary Accession	Q86UW1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24183
Calculated MW	37735
Antigen Region	298-327

Additional Information

Gene ID	200931
Other Names	Organic solute transporter subunit alpha, OST-alpha, Solute carrier family 51 subunit alpha, SLC51A, OSTA
Target/Specificity	This OST alpha antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 298-327 amino acids from the C-terminal region of human OST alpha.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
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	OST alpha Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

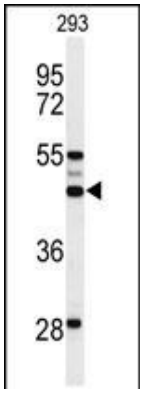
Name	SLC51A (HGNC:29955)
Synonyms	OSTA
Function	Essential component of the OST-alpha/OST-beta complex, a heterotetramer

	that acts as the intestinal basolateral transporter responsible for bile acid export from enterocytes into portal blood (PubMed:16317684, PubMed:41606314, PubMed:41606328). The OST-alpha/OST- beta complex efficiently transports the major species of bile acids (taurocholate) (PubMed:16317684, PubMed:41606314, PubMed:41606328). Taurine conjugates are transported more efficiently across the basolateral membrane than glycine-conjugated bile acids (By similarity). In the complex, SLC51A/OST-alpha adopts a G protein- coupled receptor fold and constitutes a bile acid recognition site (PubMed:41606314, PubMed:41606328). Can also transport steroids such as estrone 3-sulfate and dehydroepiandrosterone 3-sulfate, therefore playing a role in the enterohepatic circulation of sterols (PubMed:16317684). Able to transport eicosanoids such as prostaglandin E2 (By similarity).
Cellular Location	Basolateral cell membrane; Multi-pass membrane protein Note=Transported from the endoplasmic reticulum to the plasma membrane upon interacting with SLC51B (By similarity). Mainly restricted to the lateral and basal membranes of ileal enterocytes (By similarity) {ECO:0000250|UniProtKB:Q8R000}
Tissue Location	Widely expressed with a high expression in ileum. Expressed in testis, colon, liver, small intestine, kidney, ovary and adrenal gland; and at low levels in heart, lung, brain, pituitary, thyroid gland, uterus, prostate, mammary gland and fat

References

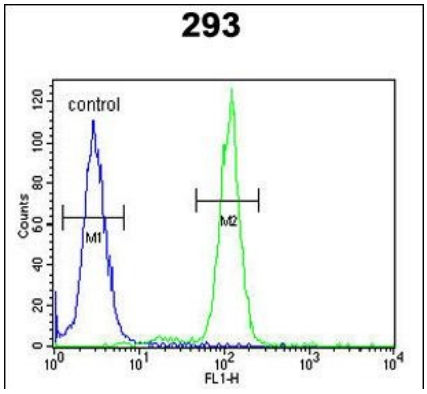
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Images



Western blot analysis of OSTalpha Antibody (C-term) (Cat. #AP9838b) in 293 cell line lysates (35ug/lane). OST alpha (arrow) was detected using the purified Pab.

OST alpha Antibody (C-term) (Cat. #AP9838b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.