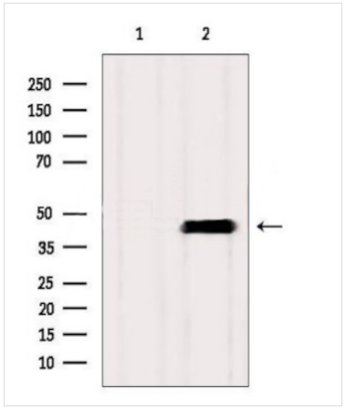
ASBT Antibody – Rabbit Polyclonal

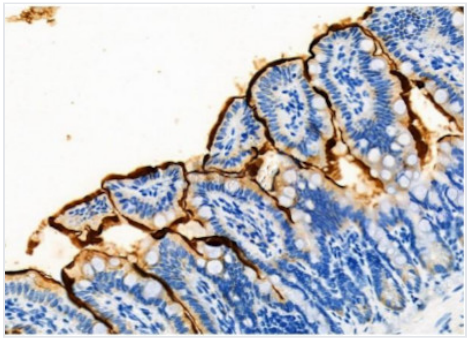
PRODUCT OVERVIEW

Product Name	ASBT, Polyclonal Antibody
Full Product Name	ASBT Antibody
Product Gene Name	anti-ASBT antibody
Product Synonym Gene Name	SLC10A2
Product Synonym Names	Apical sodium dependent bile acid transporter; Apical sodium-dependent bile acid transporter; Apical sodium-dependent bile acid transporter; ASBT; IBAT; ileal; ileal apical sodium-dependent bile acid transporter; Ileal Na(+)/bile acid cotransporter; Ileal sodium dependent bile acid transporter; Ileal sodium-dependent bile acid transporter; Ileal sodium/bile acid cotransporter; ISBT; Na(+)-dependent ileal bile acid transporter; Na+ bile acid cotransporter; Na+ dependent ileal bile acid transporter; NTCP2; NTCP2_HUMAN; PBAM; SLC10A2; Sodium/taurocholate cotransporting polypeptide; Sodium/taurocholate cotransporting polypeptide, ileal; solute carrier family 10 (sodium/bile acid cotransporter family); Solute carrier family 10 (sodium/bile acid cotransporter family), member 2; Solute carrier family 10 member 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	~1mg/ml (lot specific)
Preparation and Storage	Store at -20°C.
Antibody/Peptide Pairs	ASBT peptide (MBS9621056) is used for blocking the activity of ASBT antibody (MBS9603579)
Molecular Weight	38-40 kDa
3D Structure	ModBase 3D Structure for Q12908
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human ASBT, corresponding to a region within C-terminal amino acids.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ASBT antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-ASBT antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 The optimal dilutions should be determined by the end user. **IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween20 at 4°C with gentle shaking, overnight.

Related Product Information for anti-ASBT antibody	MBS9603579 is an antibody targeting ASBT. Also known as ASBT Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-ASBT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ASBT antibody
Western blot analysis of extracts from Mouse brain, using ASBT Ab. The lane on the left was treated with blocking peptide



Immunohistochemistry (IHC) of anti-ASBT antibody
MBS9603579 at 1/100 staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary Ab at 4°C overnight. An HRP conjugated anti-Rabbit Ab was used as the secondary Ab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASBT. It may not necessarily be applicable to this product.

NCBI GI #	4506973
NCBI GeneID	6555
NCBI Accession #	NP_000443.1
UniProt Primary Accession #	Q12908
UniProt Secondary Accession #	Q13839; A1L4F4
UniProt Related Accession #	Q12908
GenBank Nucleotide #	NM_000452.2
NCBI Official Full Name	ileal sodium/bile acid cotransporter
NCBI Official Synonym Full Names	solute carrier family 10 member 2
NCBI Official Symbol	SLC10A2
NCBI Official Synonym Symbols	ASBT; IBAT; ISBT; PBAM; NTCP2
UniProt Protein Name	Ileal sodium/bile acid cotransporter
UniProt Synonym Protein Names	Apical sodium-dependent bile acid transporter; ASBT; Ileal Na(+)/bile acid cotransporter; Ileal sodium-dependent bile acid transporter; IBAT; ISBT; Na(+)-dependent ileal bile acid transporter; Sodium/taurocholate cotransporting polypeptide, ileal; Solute carrier family 10 member 2
Protein Family	Ileal sodium/bile acid cotransporter
UniProt Gene Name	SLC10A2
UniProt Synonym Gene Names	ASBT; ISBT; NTCP2; ASBT; IBAT; ISBT
NCBI Protein Information	ileal sodium/bile acid cotransporter

NCBI Summary for ASBT	This gene encodes a sodium/bile acid cotransporter. This transporter is the primary mechanism for uptake of intestinal bile acids by apical cells in the distal ileum. Bile acids are the catabolic product of cholesterol metabolism, so this protein is also critical for cholesterol homeostasis. Mutations in this gene cause primary bile acid malabsorption (PBAM); muatations in this gene may also be associated with other diseases of the liver and intestines, such as familial hypertriglyceridemia (FHTG). [provided by RefSeq, Mar 2010]
UniProt Comments for ASBT	Plays a critical role in the sodium-dependent reabsorption of bile acids from the lumen of the small intestine. Plays a key role in cholesterol metabolism.
Research Articles on ASBT	**1.** A cysteine-less form of hASBT was made by creating point mutations at all 13 endogenous cysteines. Cysless hASBT had significantly reduced function correlated with lowered surface expression.Chemical cross-linking of wild-type and Cysless species revealed that hASBT has a dominant negative effect and exists as an active dimer and/or higher order oligomer with apparently no requirement for endogenous cysteine residues.
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