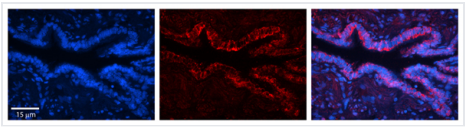
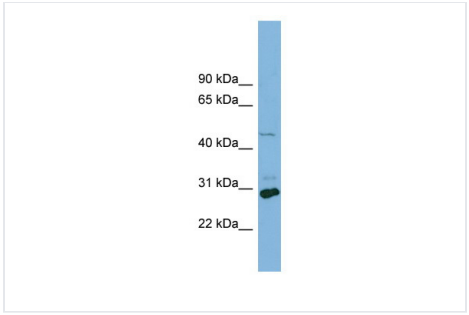
SLC16A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC16A1, Polyclonal Antibody
Full Product Name	SLC16A1 antibody - middle region
Product Gene Name	anti-SLC16A1 antibody
Product Synonym Gene Name	FLJ36745; MCT; MCT1; MGC44475; HHF7
Immunogen Sequence	Synthetic peptide located within the following region: EKAGKSGVKK DLHDANTDLI GRHPKQEKRS VFQTINQFLD LTLFTHRGFL
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	SLC16A1 peptide (MBS3232027) is used for blocking the activity of SLC16A1 antibody (MBS3207061)
Molecular Weight	54kDa
OMIM	245340
3D Structure	ModBase 3D Structure for P53985
Homology	Human: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human SLC16A1
Product Categories/Family for anti-SLC16A1 antibody	Polyclonal; Membrane Protein; Drugs and Drug Metabolism
Applications Tested/Suitable for anti-SLC16A1 antibody	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for anti-SLC16A1 antibody	This is a rabbit polyclonal antibody against SLC16A1. It was validated on Western Blot using a cell lysate as a positive control. Target Description: SLC16A1 is a monocarboxylate transporter (MCT1) that mediates the movement of lactate and pyruvate across cell membranes Import and export of these substrates by tissues such as erythrocytes, muscle, intestine, and kidney are ascribed largely to the actio
Other Notes	Small volumes of anti-SLC16A1 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.
Searchable Terms for SLC16A1 purchase	MBS3207061 is an antibody targeting SLC16A1. Also known as SLC16A1 antibody - middle region. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-SLC16A1 antibody
Rabbit Anti-SLC16A1 AntibodyFormalin Fixed Paraffin Embedded Tissue: Human Bronchial Epithelial TissueObserved Staining: Membrane and cytoplasmicPrimary Antibody Concentration: 1:100Other Working Concentrations: 1/600Secondary Antibody: Donkey anti-Rabbit-Cy3Secondary Antibody Concentration: 1:200Magnification: 20XExposure Time: 0.5 - 2.0 sec



Western Blot (WB) of anti-SLC16A1 antibody
WB Suggested Anti-SLC16A1 Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:62500Positive Control: HT1080 cell lysateSLC16A1 is strongly supported by BioGPS gene expression data to be expressed in Human HT1080 cells

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC16A1. It may not necessarily be applicable to this product.

NCBI GI #	115583685
NCBI GeneID	6566
NCBI Accession #	NP_003042
UniProt Primary Accession #	P53985
UniProt Related Accession #	P53985
GenBank Nucleotide #	NM_003051
NCBI Official Full Name	monocarboxylate transporter 1
NCBI Official Synonym Full Names	solute carrier family 16 member 1
NCBI Official Symbol	SLC16A1
NCBI Official Synonym Symbols	MCT; HHF7; MCT1; MCT1D
UniProt Protein Name	Monocarboxylate transporter 1
UniProt Synonym Protein Names	Solute carrier family 16 member 1
Protein Family	Monocarboxylate transporter
UniProt Gene Name	SLC16A1
UniProt Synonym Gene Names	MCT1; MCT 1
UniProt Entry Name	MOT1_HUMAN
NCBI Protein Information	monocarboxylate transporter 1
NCBI Summary for SLC16A1	The protein encoded by this gene is a proton-linked monocarboxylate transporter that catalyzes the movement of many monocarboxylates, such as lactate and pyruvate, across the plasma membrane. Mutations in this gene are associated with erythrocyte lactate transporter defect. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2009]
Research Articles on SLC16A1	**1.** 7ACC2 is an inhibitor of mitochondrial pyruvate transport; the blockade of pyruvate import into mitochondria prevents extracellular lactate uptake as efficiently as a MCT1 inhibitor
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