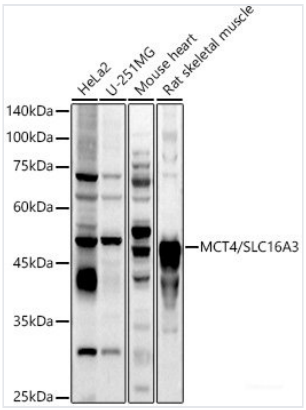
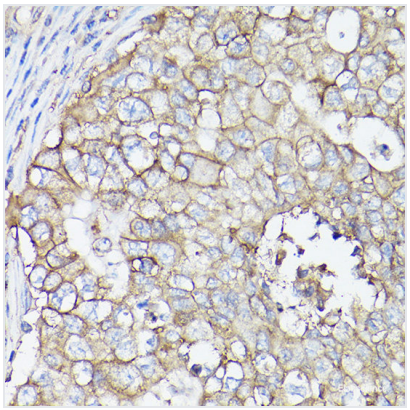
MCT4/SLC16A3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

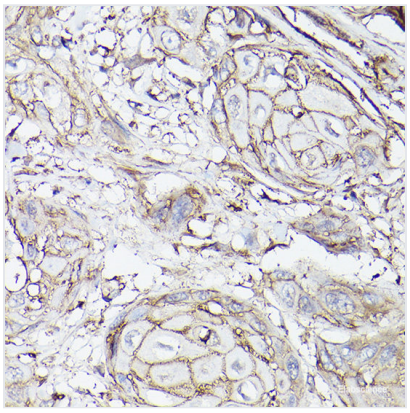
Product Name	MCT4/SLC16A3, Polyclonal Antibody
Full Product Name	MCT4/SLC16A3 Polyclonal Antibody
Product Gene Name	anti-MCT4/SLC16A3 antibody
Product Synonym Names	SLC16A3; MCT 3; MCT 4; MCT-3; MCT-4; MCT3; MCT4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Purity/Purification	Affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Storage: -20 degree C/One year. Avoid freeze/thaw cycles.
Molecular Weight	49,469 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (80186282..80197375). Location: 17q25
OMIM	603877
3D Structure	ModBase 3D Structure for O15427
Immunogen	Recombinant fusion protein of human MCT4/SLC16A3
Research Area	Cancer, Metabolism, Signal Transduction
Product Categories/Family for anti-MCT4/SLC16A3 antibody	Antibodies; Primary Antibodies; Polyclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MCT4/SLC16A3 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MCT4/SLC16A3 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-MCT4/SLC16A3 antibody	Lactic acid and pyruvate transport across plasma membranes is catalyzed by members of the proton-linked monocarboxylate transporter (MCT) family, which has been designated solute carrier family-16. Each MCT appears to have slightly different substrate and inhibitor specificities and transport kinetics, which are related to the metabolic requirements of the tissues in which it is found. The MCTs, which include MCT1 (SLC16A1; MIM 600682) and MCT2 (SLC16A7; MIM 603654), are characterized by 12 predicted transmembrane domains (Price et al., 1998 [PubMed 9425115]).[supplied by OMIM, Mar 2008]
Other Notes	Small volumes of anti-MCT4/SLC16A3 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 MCT4/SLC16A3 purchase	MBS2572893 is an antibody targeting MCT4/SLC16A3. Also known as MCT4/SLC16A3 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MCT4/SLC16A3 antibody
Western blot analysis of extracts of various cell lines using MCT4/SLC16A3 Polyclonal Antibody at 1:1000 dilution.



Immunohistochemistry (IHC) of anti-MCT4/SLC16A3 antibody
Immunohistochemistry of paraffin-embedded human breast cancer using MCT4/SLC16A3 Polyclonal Antibody at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry (IHC) of anti-MCT4/SLC16A3 antibody
Immunohistochemistry of paraffin-embedded human esophageal cancer using MCT4/SLC16A3 Polyclonal Antibody at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCT4/SLC16A3. It may not necessarily be applicable to this product.

NCBI GI #	109288012
NCBI GeneID	9123
NCBI Accession #	NP_001035887.1
UniProt Primary Accession #	O15427
UniProt Secondary Accession #	Q2M1P8; B3KXG8
UniProt Related Accession #	O15427
GenBank Nucleotide #	NM_001042422.2
NCBI Official Full Name	monocarboxylate transporter 4
NCBI Official Synonym Full Names	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)
NCBI Official Symbol	SLC16A3
NCBI Official Synonym Symbols	MCT3; MCT4; MCT 3; MCT 4; MCT-3; MCT-4
UniProt Protein Name	Monocarboxylate transporter 4
UniProt Synonym Protein Names	Solute carrier family 16 member 3

UniProt Gene Name	SLC16A3
UniProt Synonym Gene Names	MCT4; MCT 4
UniProt Entry Name	MOT4_HUMAN
NCBI Protein Information	monocarboxylate transporter 4; monocarboxylate transporter 3; solute carrier family 16 (monocarboxylic acid transporters), member 3
UniProt Comments for MCT4/SLC16A3	SLC16A3: Proton-linked monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate. Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family. Protein type: Transporter; Membrane protein, integral; Membrane protein, multi-pass; Transporter, SLC family Chromosomal Location of Human Ortholog: 17q25 Cellular Component: nuclear membrane; membrane; integral to plasma membrane; plasma membrane; actin cytoskeleton Molecular Function: monocarboxylic acid transmembrane transporter activity; symporter activity; lactate transmembrane transporter activity; secondary active monocarboxylate transmembrane transporter activity Biological Process: cellular metabolic process; monocarboxylic acid transport; pyruvate metabolic process; blood coagulation; transmembrane transport; leukocyte migration
Research Articles on MCT4/SLC16A3	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
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