

Goat Anti-SLC16A7 / MCT2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1997a**Specification**

Goat Anti-SLC16A7 / MCT2 Antibody - Product Information

Application	WB
Primary Accession	O60669
Other Accession	NP_004722 , 9194
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	52200

Goat Anti-SLC16A7 / MCT2 Antibody - Additional Information**Gene ID** 9194**Other Names**

Monocarboxylate transporter 2, MCT 2, Solute carrier family 16 member 7, SLC16A7, MCT2

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-SLC16A7 / MCT2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SLC16A7 / MCT2 Antibody - Protein Information**Name** SLC16A7 ([HGNC:10928](#))**Function**

Proton-coupled monocarboxylate symporter. Catalyzes the rapid transport across the plasma membrane of monocarboxylates such as L- lactate, pyruvate and ketone bodies, acetoacetate, beta-hydroxybutyrate and acetate (PubMed:9786900, PubMed:32415067). Dimerization is functionally required and both subunits work cooperatively in transporting substrate (PubMed:32415067).

Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:P53988}; Multi-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:O70451}. Note=Requires the ancillary protein, EMB for plasma membrane localization (By similarity). Colocalizes with BSG in spermatozoa. Detected in the cytoplasm of Sertoli cells (By similarity). {ECO:0000250|UniProtKB:O70451, ECO:0000250|UniProtKB:Q63344}

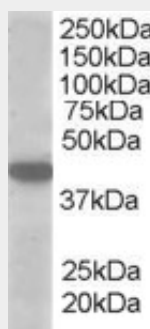
Tissue Location

Detected in heart and in blood lymphocytes and monocytes (at protein level) (PubMed:15505343). High expression in testis, moderate to low in spleen, heart, kidney, pancreas, skeletal muscle, brain and leukocyte (PubMed:9786900). Restricted expression in normal tissues, but widely expressed in cancer cells

Goat Anti-SLC16A7 / MCT2 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-SLC16A7 / MCT2 Antibody - Images

AF1997a (1 µg/ml) staining of A549 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-SLC16A7 / MCT2 Antibody - References

Expression of monocarboxylate transporters 1, 2, and 4 in human tumours and their association with CD147 and CD44. Pinheiro C, et al. J Biomed Biotechnol, 2010. PMID 20454640.
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.
Monocarboxylate transport in human corneal epithelium and cell lines. Vellonen KS, et al. Eur J Pharm Sci, 2010 Feb 19. PMID 20035863.
Hypoxia stimulates lactate release and modulates monocarboxylate transporter (MCT1, MCT2, and MCT4) expression in human adipocytes. Pérez de Heredia F, et al. Pflugers Arch, 2010 Feb. PMID 19876643.
Sequential use of transcriptional profiling, expression quantitative trait mapping, and gene

association implicates MMP20 in human kidney aging. Wheeler HE, et al. PLoS Genet, 2009 Oct. PMID 19834535.