

SLC16A2 / MCT8 Antibody (aa93-142)
Rabbit Polyclonal Antibody
Catalog # ALS16241**Specification****SLC16A2 / MCT8 Antibody (aa93-142) - Product Information**

Application	WB, IHC-P, E
Primary Accession	P36021
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

SLC16A2 / MCT8 Antibody (aa93-142) - Additional Information**Gene ID** 6567**Other Names**

Monocarboxylate transporter 8, MCT 8, Monocarboxylate transporter 7, MCT 7, Solute carrier family 16 member 2, X-linked PEST-containing transporter, SLC16A2, MCT8, XPCT

Target/Specificity

SLC16A2 Antibody antibody detects endogenous levels of SLC16A2.

Reconstitution & Storage

Store at -20°C.

Precautions

SLC16A2 / MCT8 Antibody (aa93-142) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC16A2 / MCT8 Antibody (aa93-142) - Protein Information**Name** SLC16A2**Function**

Specific thyroid hormone transmembrane transporter, that mediates both uptake and efflux of thyroid hormones across the cell membrane independently of pH or a Na(+) gradient. Major substrates are the iodothyronines T3 and T4 and to a lesser extent rT3 and 3,3- diiodothyronine (3,3'-T2) (PubMed:16887882, PubMed:18337592, PubMed:20628049, PubMed:23550058, PubMed:26426690, PubMed:27805744)

target="_blank">27805744, PubMed:31436139). Acts as an important mediator of thyroid hormone transport, especially T3, through the blood-brain barrier (Probable) (PubMed:28526555).

Cellular Location

Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein

Tissue Location

Highly expressed in liver and heart (PubMed:7981683). In adult brain tissue expression is largely confined to endothelial cells of the blood-brain barrier (at protein level) (PubMed:18687783, PubMed:32143555).

Volume

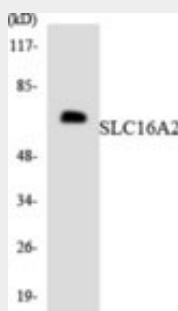
50 µl

SLC16A2 / MCT8 Antibody (aa93-142) - Protocols

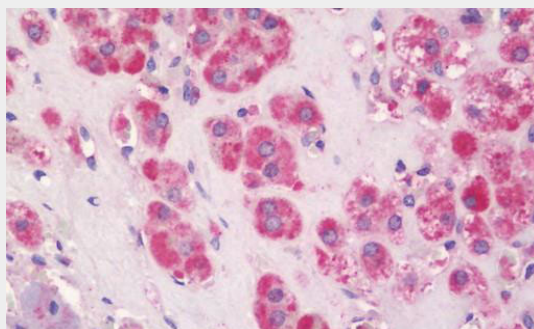
Provided below are standard protocols that you may find useful for product applications.

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

SLC16A2 / MCT8 Antibody (aa93-142) - Images



Western blot of the lysates from HT-29 cells using SLC16A2 antibody.



Anti-SLC16A2 / MCT8 antibody IHC staining of human adrenal.

SLC16A2 / MCT8 Antibody (aa93-142) - Background

Very active and specific thyroid hormone transporter. Stimulates cellular uptake of thyroxine (T4), triiodothyronine (T3), reverse triiodothyronine (rT3) and diiodothyronine. Does not transport Leu, Phe, Trp or Tyr (By similarity).

SLC16A2 / MCT8 Antibody (aa93-142) - References

Lafreniere R.G.,et al.Hum. Mol. Genet. 3:1133-1140(1994).
Kim D.,et al.Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.
Ross M.T.,et al.Nature 434:325-337(2005).
Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).
Visser W.E.,et al.Endocrinology 150:5163-5170(2009).