

SLC16A12 / MCT12 Antibody (aa115-164)
Rabbit Polyclonal Antibody
Catalog # ALS15122**Specification**

SLC16A12 / MCT12 Antibody (aa115-164) - Product Information

Application	IHC-P, E
Primary Accession	Q6ZSM3
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53kDa KDa
Dilution	IHC-P~~N/A E~~N/A

SLC16A12 / MCT12 Antibody (aa115-164) - Additional Information**Gene ID** 387700**Other Names**

Monocarboxylate transporter 12, MCT 12, Creatine transporter 2, CRT2, Solute carrier family 16 member 12, SLC16A12, MCT12

Target/Specificity

MOT12 Antibody detects endogenous levels of total MOT12 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

SLC16A12 / MCT12 Antibody (aa115-164) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC16A12 / MCT12 Antibody (aa115-164) - Protein Information**Name** SLC16A12 ([HGNC:23094](#))**Function**

Functions as a transporter for creatine and as well for its precursor guanidinoacetate. Transport of creatine and GAA is independent of resting membrane potential and extracellular Na(+), Cl(-), or pH. Contributes to the process of creatine biosynthesis and distribution.

Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q8BGC3}; Multi-pass membrane protein. Note=Interaction with isoform 2 of BSG is required for its localization to the plasma membrane.

Tissue Location

Most highly expressed in kidney, followed by retina, lung, heart and testis. Very weakly expressed in brain and liver. Also detected in lens.

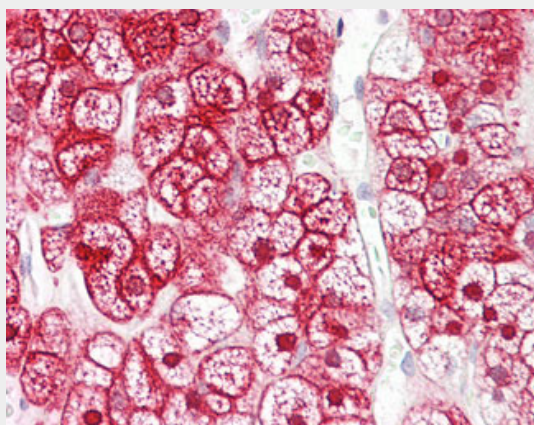
Volume

50 µl

SLC16A12 / MCT12 Antibody (aa115-164) - 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](#)

SLC16A12 / MCT12 Antibody (aa115-164) - Images

Anti- Anti-SLC16A12 / MCT12 antibody IHC of human adrenal.

SLC16A12 / MCT12 Antibody (aa115-164) - Background

Proton-linked monocarboxylate transporter that mediates creatine transport across the plasma membrane.

SLC16A12 / MCT12 Antibody (aa115-164) - References

Ota T., et al. Nat. Genet. 36:40-45(2004).
Deloukas P., et al. Nature 429:375-381(2004).
Kloeckener-Gruissem B., et al. Am. J. Hum. Genet. 82:772-779(2008).
Abplanalp J., et al. Hum. Mol. Genet. 22:3218-3226(2013).