

Anti-MCT4

(*monocarboxylate transporter-4* or *Slc16a3*)

Code Number : MCT4-Rb-Af420 (rabbit, RRID : AB_2571797)

Size : 20 µg and 50 µg / See label on vial
(affinity-purified with antigen polypeptide)

Formulation : Liquid ; 200 µg/ml in PBS with 0.05% NaN₃.

Storage : Store at 4°C. The antibody can be stored at 4°C. The antibody can be also aliquotted and stored at -80°C for long-term storage. Avoid repeated freeze-thawing.

Non-hazardous. No MSDS required.

Species : rabbit, polyclonal

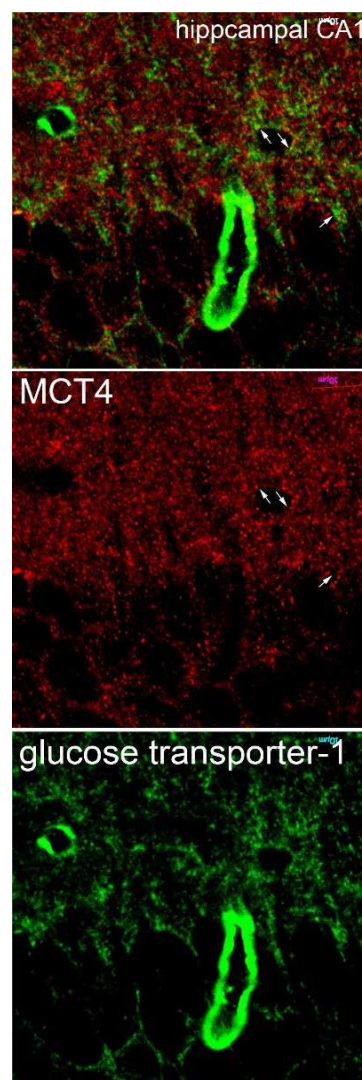
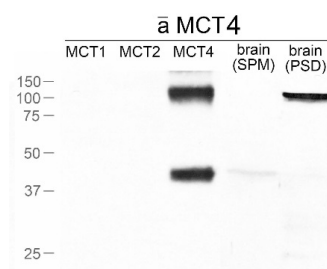
Antigen : mouse MCT4, 467-493 aa
(NM_001038654)

Specificity : mouse (others not tested)

The specificity of MCT4 antibody was confirmed by selective detection of 40 and 100 kDa bands in HEK293T lysates transfected with MCT4, but not MCT1 or MCT2.

In fractionated brain samples, 37kDa band is detected in the SPM fraction, while 100 kDa band is detected in the PSD fraction. In immunohistochemistry, MCT2 is detected in a cell-type dependent manner, for example, the tail of spermatids and sperm tail in the testis. In the brain, MCT4 is not expressed in the capillary and does not overlap with MCT1.

Applications : In general, affinity-purified antibody is used at around 1 microgram/ml for immunoblot and



immunohistochemistry.

The most appropriate concentration should be determined by users, because it depends on contents in given cells, tissues and organs.

Research Use : For research use only, not for use in diagnostic procedures.

Remarks :

Reference : 1) Kaji I, Iwanaga T, Watanabe M, Guth P, Engel E, Kaunitz J, Akiba Y: SCFA transport in rat duodenum. **Am J Physiol Gastrointest Liver Physiol**, 308:G188-197, 2015.