bs-3995R

## [ Primary Antibody ]

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## MCT2 Rabbit pAb

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

**GenelD:** 9194 **SWISS:** 060669

Target: MCT2

**Immunogen:** KLH conjugated synthetic peptide derived from human SLC16A7:

401-478/478. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%

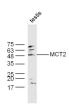
Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

Background: Tissues with few or no mitochondria, such as erythrocytes and tumor cells, depend largely on glycolysis to generate ATP. The major end products of glycolysis, pyruvate and lactate, must be eliminated from these cells to enable continued glycolytic flux and prevent toxic effects. H+/monocarboxylate transporters (MCTs) mediate the transport of lactate and pyruvate. Human MCT2 has a high affinity for the transport of pyruvate (summary by Lin et al., 1998 [PubMed 9786900]).[supplied by OMIM, Feb 2011].

VALIDATION IMAGES



Sample: Testis (Mouse) Lysate at 40 ug Primary: Anti-MCT2 (bs-3995R) at 1/300 dilution Secondary: IRDve800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD

## - SELECTED CITATIONS -

- [IF=6.78] P.P.M. Scariot. et al. Monocarboxylate transporters (MCTs) in skeletal muscle and hypothalamus of less or more physically active mice exposed to aerobic training. LIFE SCI. 2022 Oct;307:120872 WB; Mouse. 35948119
- [IF=5.923] Abdelnaby Khalyfa. et al. Monocarboxylate Transporter-2 Expression Restricts Tumor Growth in a Murine Model of Lung Cancer: A Multi-Omic Analysis. Int J Mol Sci. 2021 Jan;22(19):10616 WB; mouse. 34638954
- [IF=5.332] Harun-Or-Rashid M et al. MCT2 overexpression rescues metabolic vulnerability and protects retinal ganglion cells in two models of glaucoma. Neurobiol Dis. 2020 Jul;141:104944. Other; Mouse. 32422282
- [IF=3.8] Hajka Daria. et al. Neuronal extracellular vesicles influence the expression, degradation and oligomeric state of fructose 1,6-bisphosphatase 2 in astrocytes affecting their glycolytic capacity. SCI REP-UK. 2024 Sep;14(1):1-16 | F ;Mouse. 39251668
- [IF=3.8] Alanis Coca. et al. Knocking down the neuronal lactate transporter MCT2 in the arcuate nucleus of female rats increases food intake and body weight.SCIENTIFIC REPORTS.2025 Mar 3;15(1):7497. Western blot; Rat. 40032881

techsupport@bioss.com.cn 400-901-9800 Applications: WB (1:500-2000)

Reactivity: Mouse, Rat

(predicted: Human, Rabbit, Pig, Cow, Dog, Horse)

Predicted 52 kDa MW.:

Subcellular Location: Cell membrane