

bs-2698R**[Primary Antibody]****MCT4/SLC16A3 Rabbit pAb****Bioss**
ANTIBODIES

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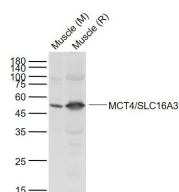
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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		Reactivity: Mouse, Rat (predicted: Human, Cow, Horse)
GeneID: 9123	SWISS: O15427	Predicted MW.: 52 kDa
Target: MCT4/SLC16A3		Subcellular Location: Cell membrane
Immunogen: KLH conjugated synthetic peptide derived from human SLC16A3: 401-465/465. < 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: Lactic acid and pyruvate transport across plasma membranes is catalyzed by members of the proton-linked monocarboxylate transporter (MCT) family, which has been designated solute carrier family-16. Each MCT appears to have slightly different substrate and inhibitor specificities and transport kinetics, which are related to the metabolic requirements of the tissues in which it is found. The MCTs, which include MCT1 (SLC16A1; MIM 600682) and MCT2 (SLC16A7; MIM 603654), are characterized by 12 predicted transmembrane domains (Price et al., 1998 [PubMed 9425115]).[supplied by OMIM, Mar 2008]		

— VALIDATION IMAGES —

Sample: Lane 1: Mouse Muscle tissue lysates
Lane 2: Rat Muscle tissue lysates Primary: Anti-MCT4/SLC16A3 (bs-2698R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD
Observed band size: 50 kD

— SELECTED CITATIONS —

- **[IF=8.8]** Yunjia Zhang. et al. Macrophage MCT4 inhibition activates reparative genes and protects from atherosclerosis by histone H3 lysine 18 lactylation. CELL REP. 2024 May;43: WB ;Human. 38733581
- **[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=6.78]** Pedro Paulo Menezes Scariot. et al. Living high - training low model applied to C57BL/6J mice: Effects on physiological parameters related to aerobic fitness and acid-base balance. LIFE SCI. 2023 Mar;317:121443 WB ;Mouse. 36709910
- **[IF=5.6]** Juan B. Orsi. et al. Critical Velocity, Maximal Lactate Steady State, and Muscle MCT1 and MCT4 after Exhaustive Running in Mice. INT J MOL SCI. 2023 Jan;24(21):15753 WB ;Mouse. 37958736

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=5.8]** Xu Jianguo. et al. PDGF-BB accelerates TSCC via fibroblast lactates limiting miR-26a-5p and boosting mitophagy. CANCER CELL INT. 2024 Dec;24(1):1-18 IHC ;Human. 38169376