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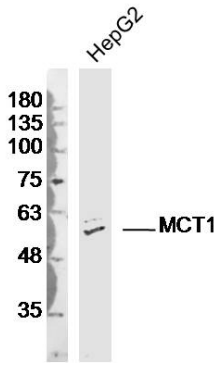
MCT1 Rabbit pAb

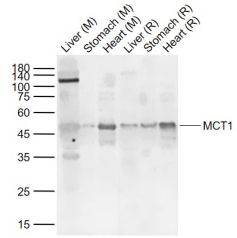
Catalog Number:	bs-10249R
Target Protein:	MCT1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1μg/Test)
Reactivity:	Human, Mouse, Rat (predicted:Rabbit, Pig, Cow, Dog, GuineaPig, Horse)
Predicted MW:	55 kDa
Subcellular Locations:	Cell membrane
Entrez Gene:	6566
Swiss Prot:	P53985
Source:	KLH conjugated synthetic peptide derived from human MCT1: 251-350/500.
Purification:	affinity purified by Protein A
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:	The protein encoded by this gene is a proton-linked monocarboxylate transporter that catalyzes the movement of many monocarboxylates, such as lactate and pyruvate, across the plasma membrane. Mutations in this gene are associated with erythrocyte lactate transporter defect. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2009]

VALIDATION IMAGES

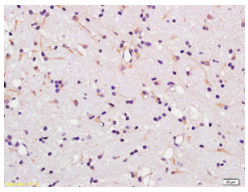
Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



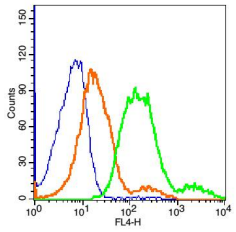
Sample:HepG2 (Human)cell Lysate at 40 ug Primary: Anti-MCT1(bs-10249R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 55kD Observed band size: 55kD



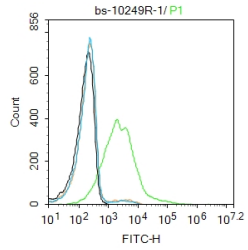
Sample: Lane 1: Liver (Mouse) Lysate at 40 ug Lane 2: Stomach (Mouse) Lysate at 40 ug Lane 3: Heart (Mouse) Lysate at 40 ug Lane 4: Liver (Rat) Lysate at 40 ug Lane 5: Stomach (Rat) Lysate at 40 ug Lane 6: Heart (Rat) Lysate at 40 ug Primary: Anti-MCT1 (bs-10249R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 48 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MCT1) Polyclonal Antibody, Unconjugated (bs-10249R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control: MCF7 Cells(blue). Primary Antibody: Rabbit Anti-MCT1/AF647 Conjugated antibody (bs-10249R-AF647), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/FITC(orange) ,used under the same conditions.



Blank control:K562. Primary Antibody (green line): Rabbit Anti-MCT1 antibody (bs-10249R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5μg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[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=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=5.6] 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

[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

[IF=4.225] Li H et al . Trimetazidine Ameliorates Myocardial Metabolic Remodeling in Isoproterenol-Induced Rats Through Regulating

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Ketone Body Metabolism via Activating AMPK and PPAR α Front Pharmacol. 2020 Aug 14;11:1255. WB ; rat . 32922293

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