bs-1569R **[Primary Antibody]**

MCT1/Malignant T cell amplified sequence 1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal **GeneID:** 6566

Target: MCT1/Malignant T cell amplified sequence 1

Immunogen: KLH conjugated synthetic peptide derived from human MCT1: 34-59/500.

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: 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]

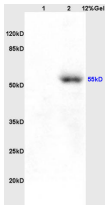
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Dog, GuineaPig, Horse)

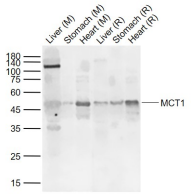
Predicted MW: 55 kDa

Subcellular Location: Cell membrane

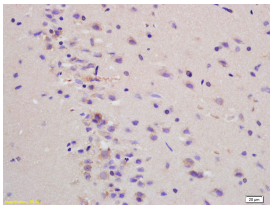
VALIDATION IMAGES



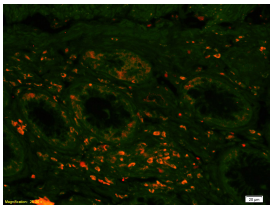
Sample: Brain(Rat) lysate at 45ug; Colon carcinoma(Human) lysate at 45ug; Primary: Anti-MCT1 (bs-1569R) at 1:200; Secondary: HRP conjugated Goat Anti-Rabbit IgG(bs-0295G-HRP) at 1: 3000; Predicted band size : 55kD Observed band size : 55kD



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-1569R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 48 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-MCT1 Polyclonal Antibody, Unconjugated(bs-1569R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human colon carcinoma;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-MCT1 Polyclonal Antibody, Unconjugated(bs-1569R)

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

1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.

SELECTED CITATIONS

- **[IF=0]** Klasvogt, Sonja, et al. "Air–liquid interface enhances oxidative phosphorylation in intestinal epithelial cell line IPEC-J2." Cell Death Discovery 3 (2017): 17001. WB ;="Pig". 28250970

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