

## Basic Information

<b>Product Name</b>	Anti-MCT1/SLC16A1 Antibody (Clone#20S76)
<b>Gene Name</b>	SLC16A1
<b>Source</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human
<b>Tested Application</b>	WB, IHC
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	A synthesized peptide derived from human Monocarboxylic acid transporter 1
<b>Concentration</b>	500 ug/ml
<b>Observed MW</b>	54 kDa
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

Proton-linked monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate.

## Selected Validation Data

Product datasheet  
**Anti-MCT1/SLC16A1 Antibody**  
**(Clone#20S76)**  
**Catalog Number: BM5736**

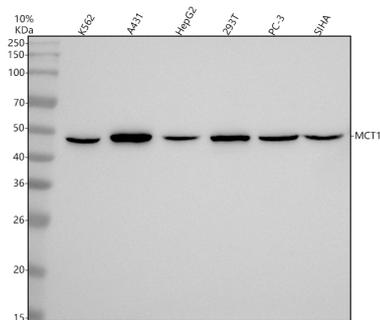
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Western blot analysis of anti-MCT1/SLC16A1 antibody (BM5736). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human K562 whole cell lysates,

Lane 2: human A431 whole cell lysates,

Lane 3: human HepG2 whole cell lysates,

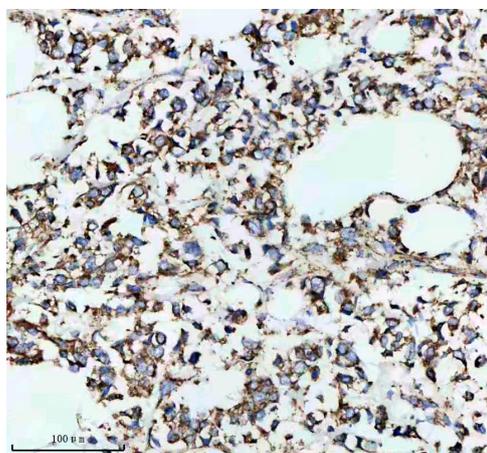
Lane 4: human 293T whole cell lysates,

Lane 5: human PC-3 whole cell lysates,

Lane 6: human SIHA whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-MCT1/SLC16A1 antigen affinity purified monoclonal antibody (BM5736) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for MCT1/SLC16A1 at approximately 50 kDa. The expected band size for MCT1/SLC16A1 is at 54 kDa.



IHC analysis of MCT1/SLC16A1 using anti-MCT1/SLC16A1 antibody (BM5736) .

MCT1/SLC16A1 was detected in a paraffin-embedded section of human breast cancer tissue. The tissue section was incubated with rabbit anti-MCT1/SLC16A1 Antibody (BM5736) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.