Datasheet for ABIN3044003

# anti-SLC16A4 antibody (N-Term)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | SLC16A4 |
| Binding Specificity: | AA 134-148, N-Term |
| Reactivity: | Human, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SLC16A4 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

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|---|---|
| Purpose: | Rabbit IgG polyclonal antibody for Monocarboxylate transporter 5(SLC16A4) detection. Tested with WB, IHC-P in Human,Mouse,Rat. |
| Immunogen: | A synthetic peptide corresponding to a sequence at the N-terminus of human SLC16A4(134-148aa VVTTKYFKKRLALST), different from the related rat and mouse sequences by two amino acids. |
| Sequence: | VVTTKYFKKR LALST |
| Isotype: | IgG |
| Cross-Reactivity (Details): | Predicted Cross Reactivity: mouse<br>No cross reactivity with other proteins.<br>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities. |

## Product Details

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|---|---|
| Characteristics: | Rabbit IgG polyclonal antibody for Monocarboxylate transporter 5(SLC16A4) detection. Tested with WB, IHC-P in Human,Mouse,Rat.<br>Gene Name: solute carrier family 16, member 4(monocarboxylic acid transporter 5)<br>Protein Name: Monocarboxylate transporter 5 |
| Purification: | Immunogen affinity purified. |

## Target Details

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|---|---|
| Target: | SLC16A4 |
| Alternative Name: | SLC16A4 (SLC16A4 Products) |
| Background: | Monocarboxylate transporter 5, also called Solute carrier family 16 member 4 or MCT4, is a protein that in humans is encodes by the SLC16A4 gene. This gene is mapped to 1p13.3. It acts as the proton-linked monocarboxylate transporter. This gene 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.<br><br>Synonyms: MCT4 antibody\|MCT5 antibody\|Monocarboxylate transporter 4\|Monocarboxylate transporter 5\|SLC16A4\|Solute carrier family 16 member 4\|solute carrier family 16, member 4\|SOLUTE CARRIER FAMILY 16(MONOCARBOXYLIC ACID TRANSPORTER), MEMBER 4 |
| UniProt: | O15374 |

## Application Details

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| Application Notes: | WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Rat, Predicted Species: Mouse<br>IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,<br>Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.<br>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users. |
| Comment: | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P). |
| Restrictions: | For Research Use only |

## Handling

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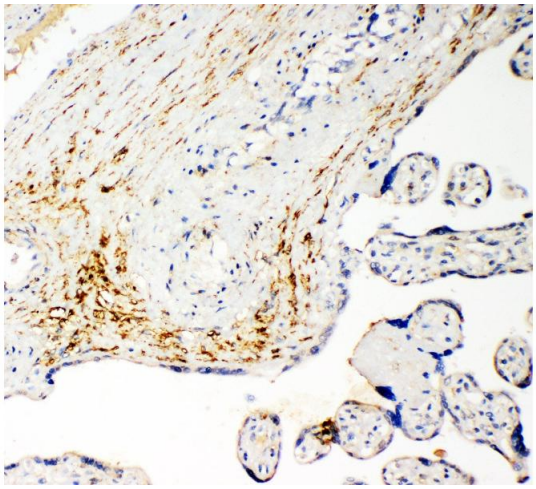
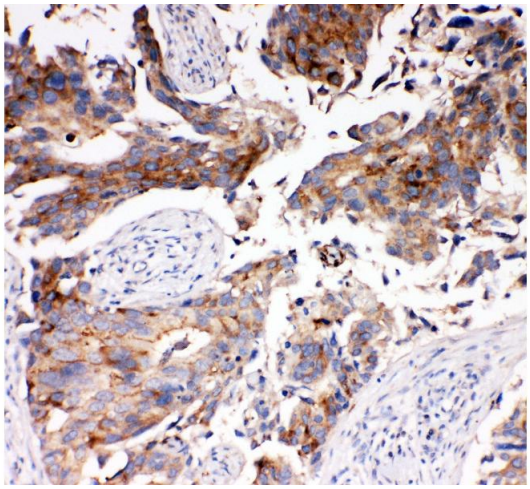
| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide. |
| Preservative: | Thimerosal (Merthiolate), Sodium azide |
| Precaution of Use: | This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | At -20°C for one year. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |
| Expiry Date: | 12 months |

## Images



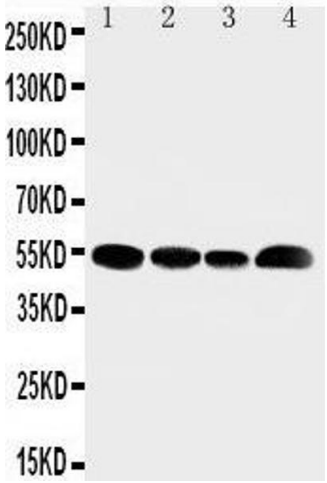
**Immunohistochemistry**

**Image 1.** Anti-SLC16A4 antibody, IHC(P) IHC(P): Human Placenta Cancer Tissue



## Immunohistochemistry

**Image 2.** Anti-SLC16A4 antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue




## Western Blotting

**Image 3.** Anti-SLC16A4 antibody, Western blotting Lane 1: Rat Testis Tissue Lysate Lane 2: JURKAT Cell Lysate Lane 3: HELA Cell Lysate Lane 4: MCF-7 Cell Lysate