

## Monocarboxylate Transporter 3 (MCT3). Rabbit Polyclonal Antibody , Human

Solute carrier family 16 member 8; MCT3; SLC16A8

### BACKGROUND

Monocarboxylate Transporter 3 (MCT3) is a proton-linked monocarboxylate transporter. It 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.

### ORDERING INFORMATION

**CATALOG NUMBER**  
X2362P

**SIZE**  
100 µg

**FORM**  
Unconjugated

**HOST/CLONE**  
Rabbit

**FORMULATION**  
Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**  
1 mg/ml

**ISOTYPE**

**APPLICATIONS**  
Western blot

### IMMUNOGEN

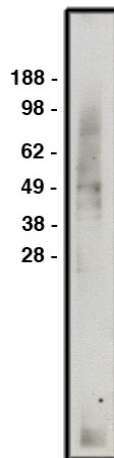
Synthetic peptide derived from MCT3 protein.

### SPECIES REACTIVITY

Human

### Legend:

Western blot analysis using MCT3 antibody (Cat. No. X2363P) on human brain lysate (Cat. No. X1633C). Lysate loaded at 15µg/lane. Antibody used at 5 µg/ml. Secondary antibody, mouse anti-rabbit HRP (Cat. No. X1209M) used at 1:50k dilution.



**For research use only. Not for use in human diagnostics or therapeutics.**

**POSITIVE CONTROL/TISSUE EXPRESSION**

Retinal pigment epithelium

**COMMENTS**

Antibody can be used for Western blotting (1-5  $\mu$ g/ml starting dilution). Optimal concentration should be evaluated by serial dilutions.

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Yoon, H., et al. "Cloning of the human monocarboxylate transporter MCT3 gene: localization to chromosome 22q12.3-q13.2."; Genomics 60:366-370(1999).
2. Zhu, S., et al. "Inactivation of monocarboxylate transporter MCT3 by DNA methylation in atherosclerosis." Circulation. 2005 Aug 30;112(9):1353-61.
3. Philip, N.J., et al. "Loss of MCT1, MCT3, and MCT4 expression in the retinal pigment epithelium and neural retina of the 5A11/basigin-null mouse." Invest Ophthalmol Vis Sci. 2003 Mar;44(3):1305-11.

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