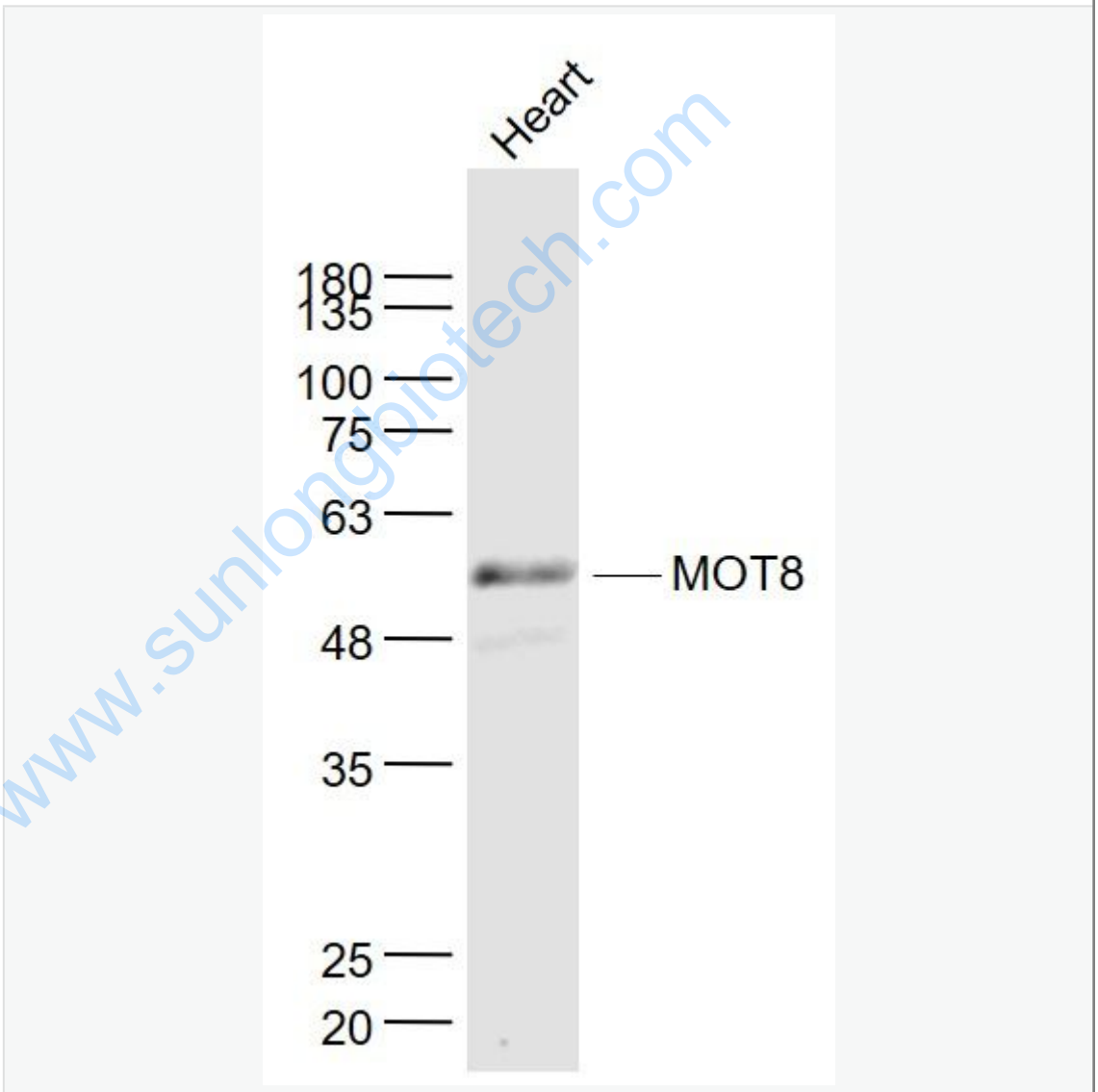
SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

# Rabbit Anti-MOT8 antibody

SL11434R

| | |
|---|---|
| **Product Name:** | MOT8 |
| **Chinese Name:** | 甲状腺激素Transporter/单羧酸Transporter7/8抗体 |
| **Alias:** | SLC16A2; AHDS; DXS 128; DXS 128E; DXS128; DXS128 E; DXS128E; MCT 7; MCT 8; MCT7; MCT8; Monocarboxylate transporter 7; Monocarboxylate transporter 8; MOT 8; MOT8_HUMAN; MRX 22; MRX22; SLC16 A2; SLC16A 2; SLC16A2; Solute carrier family 16 (monocarboxylic acid transporters), member 2; Solute carrier family 16 member 2; Solute carrier family 16, member 2 (monocarboxylic acid transporter 8); Solute carrier family 16, member 2 (thyroid hormone transporter); Solute carrier family 16, member 2; X linked PEST containing transporter; X-linked PEST-containing transporter; XPCT. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Rabbit, |
| **Applications:** | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3μg/TestICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 59kDa |
| **Cellular localization:** | The cell membrane |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human MOT8/SLC16A2:101-200/539<Extracellular> |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

| | |
|---|---|
| **PubMed:** | PubMed |
| **Product Detail:** | Very active and specific thyroid hormone transporter. Stimulates cellular uptake of thyroxine (T4), triiodothyronine (T3), reverse triiodothyronine (rT3) and diidothyronine. Does not transport Leu, Phe, Trp or Tyr.<br><br>**Function:**<br>Very active and specific thyroid hormone transporter. Stimulates cellular uptake of thyroxine (T4), triiodothyronine (T3), reverse triiodothyronine (rT3) and diidothyronine. Does not transport Leu, Phe, Trp or Tyr.<br><br>**Subunit:**<br>Homodimer.<br><br>**Subcellular Location:**<br>Cell membrane; Multi-pass membrane protein<br><br>**Tissue Specificity:**<br>Highly expressed in liver and heart.<br><br>**DISEASE:**<br>Defects in SLC16A2 are the cause of monocarboxylate transporter 8 deficiency (MCT8 deficiency) [MIM:300523]; also known as Allan-Herndon-Dudley syndrome (AHDS). MCT8 deficiency consists of a severe form of X-linked psychomotor retardation combined with abnormal thyroid hormone (TH) levels. Thyroid hormone deficiency can be caused by defects of hormone synthesis and action, but it has also been linked to a defect in cellular hormone transport. Affected patients are males with abnormal relative concentrations of three circulating iodothyronines, as well as severe neurological abnormalities, including global developmental delay, central hypotonia, spastic quadriplegia, dystonic movements, rotary nystagmus, and impaired gaze and hearing. Heterozygous females had a milder thyroid phenotype and no neurological defects.<br><br>**Similarity:**<br>Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family.<br><br>**SWISS:**<br>P36021<br><br>**Gene ID:**<br>6567<br><br>**Database links:**<br><br>Entrez Gene: 6567 Human<br><br>Omim: 300095 Human |

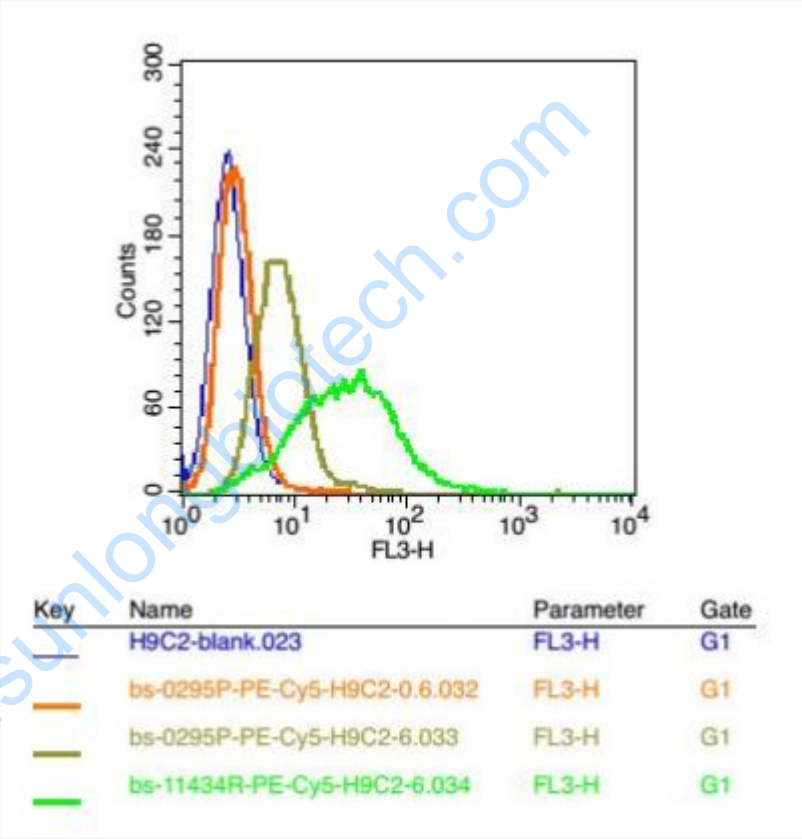
| | |
|---|---|
| | SwissProt: P36021 Human<br><br>Unigene: 75317 Human<br><br>**Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Picture:** |  <br>Sample:<br><br>Heart (Mouse) Lysate at 40 ug |

Primary: Anti- MOT8 (SL11434R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 59 kD

Observed band size: 59 kD

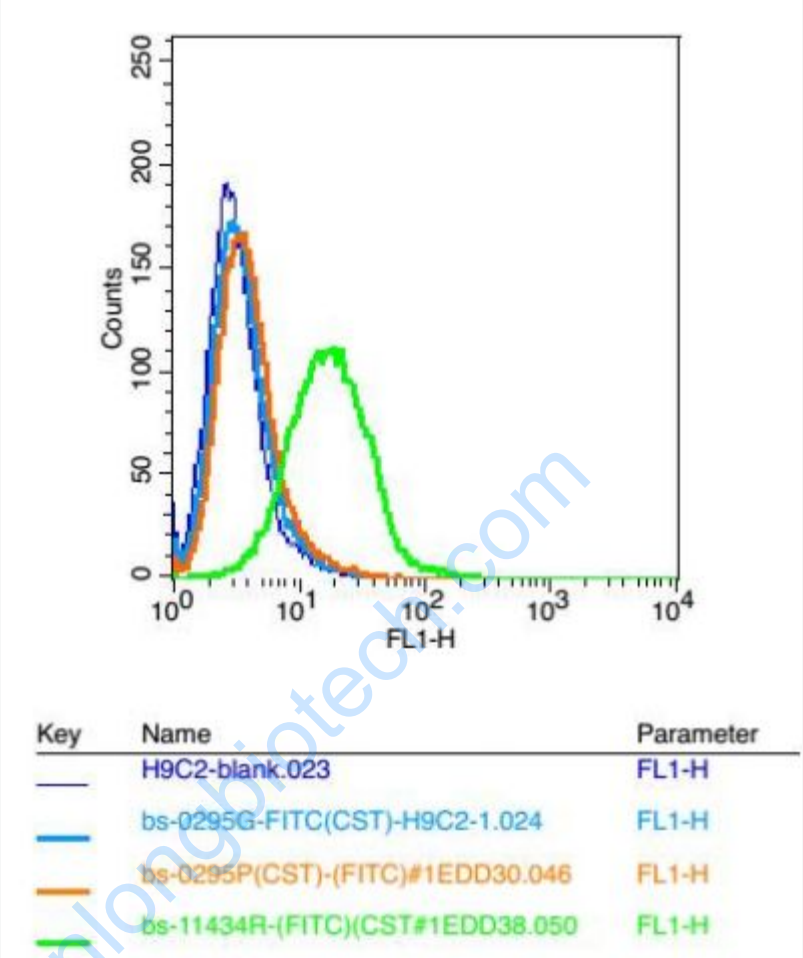





Blank control: H9C2(blue)

Isotype Control Antibody: Rabbit IgG -FITC(orange); Primary Antibody Dilution:

12µl in 100 µL1X PBS containing 0.5% BSA(green).




Positive control: H9C2

Isotype Control Antibody: Rabbit IgG ; Secondary Antibody: Goat anti-rabbit IgG-FITC, Dilution: 1:100 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 3μg in 100 μL1X PBS containing 0.5% BSA.