

MCT 8 Rabbit pAb

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Catalog # AP54501

Product Information

Application	WB
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse MOT8/SLC16A2
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein
DISEASE	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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Very active and specific thyroid hormone transporter. Stimulates cellular uptake of thyroxine (T4), triiodothyronine (T3), reverse triiodothyronine (rT3) and diiodothyronine. Does not transport Leu, Phe, Trp or Tyr.

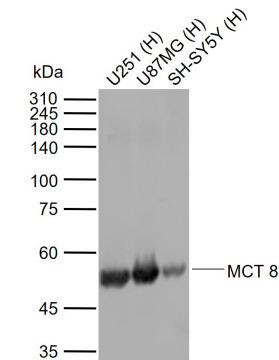
Additional Information

Other Names	Monocarboxylate transporter 8, MCT 8, Monocarboxylate transporter 7, MCT 7, Solute carrier family 16 member 2, X-linked PEST-containing transporter, SLC16A2, MCT8, XPCT
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

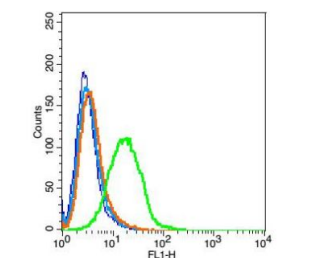
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Images

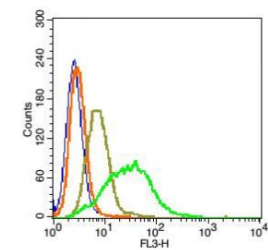


Sample:
Lane 1: Human U251 cell lysates
Lane 2: Human U87MG cell lysates
Lane 3: Human SH-SY5Y cell lysates
Primary: Anti-MCT 8 (AP54501) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 59 kDa
Observed band size: 50 kDa



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: 3 µg in 100 µL1X PBS containing 0.5% BSA.

Key	Name	Parameter
	H9C2-blank.023	FL1-H
	bs-0295G-FITC(CST)-H9C2-1.024	FL1-H
	bs-0295P(CST)-(FITC)#1EDD30.046	FL1-H
	bs-11434R-(FITC)(CST)#1EDD38.050	FL1-H



Blank control: H9C2(blue)
Isotype Control Antibody: Rabbit IgG -FITC(orange);
Primary Antibody Dilution: 12 µl in 100 µL1X PBS containing 0.5% BSA(green).

Key	Name	Parameter	Gate
	H9C2-blank.023	FL3-H	G1
	bs-0295P-PE-Cy5-H9C2-0.6.032	FL3-H	G1
	bs-0295P-PE-Cy5-H9C2-6.033	FL3-H	G1
	bs-11434R-PE-Cy5-H9C2-6.034	FL3-H	G1

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