

For Research Use Only

MCT4 Recombinant antibody

Catalog Number: 84797-4-RR



Basic Information

Catalog Number: 84797-4-RR	GenBank Accession Number: BC112269	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 9123	CloneNo.: 242296E3
Source: Rabbit	UNIPROT ID: O15427	Recommended Dilutions: WB 1:500-1:2000 IF-P 1:200-1:800
Isotype: IgG	Full Name: solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	
Immunogen Catalog Number: AG18788	Calculated MW: 465 aa, 49 kDa	
	Observed MW: 38-42 kDa	

Applications

Tested Applications: WB, IF-P, ELISA	Positive Controls:
Species Specificity: human	WB : HeLa cells, HepG2 cells, PC-3 cells IF-P : mouse skeletal muscle tissue,

Background Information

The monocarboxylate transporter 4 (MCT4, also known as SLC16A3) is involved in the transportation of metabolically important monocarboxylates such as lactate, pyruvate, acetate and ketone bodies. It is widely expressed, particularly strongly in glycolytic tissues such as white skeletal muscle fibres, astrocytes, white blood cells, chondrocytes and some mammalian cell lines. MCT4 is also linked to tumor biology because it mediates lactate transport across membranes resulting in antiapoptotic effects.

Storage

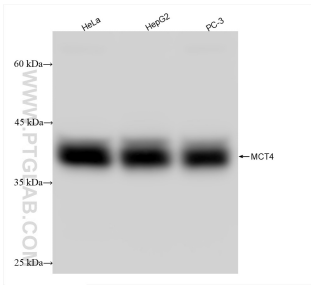
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

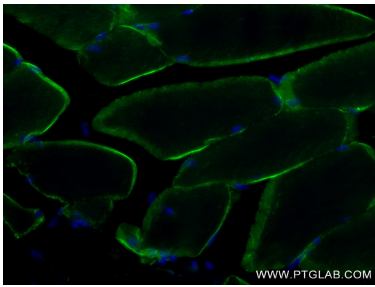
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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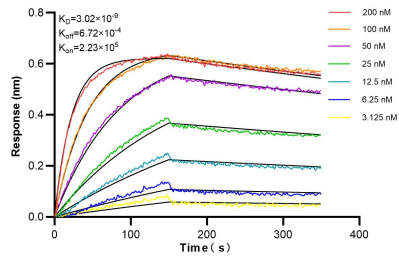
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84797-4-RR (MCT4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skeletal muscle tissue using MCT4 antibody (84797-4-RR, Clone: 242296E3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84797-4-RR against Human MCT4 were performed. The affinity constant is 3.02 nM.