

For Research Use Only

PRDM16 Recombinant antibody, PBS Only

Catalog Number: 83872-1-PBS



Basic Information

Catalog Number:

83872-1-PBS

Size:

100ug , Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_022114

GeneID (NCBI):

63976

UNIPROT ID:

Q9HAZ2

Full Name:

PR domain containing 16

Calculated MW:

140 kDa

Observed MW:

~140 kDa

Purification Method:

Protein A purification

CloneNo.:

240662D3

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human

Background Information

PR domain containing 16, also known as PRDM16, acts as a transcription coregulator that controls the development of brown adipocytes in brown adipose tissue. Previously, this coregulator was believed to be present only in brown adipose tissue, but more recent studies have shown that PRDM16 is highly expressed in subcutaneous white adipose tissue as well. The protein encoded by this gene is a zinc finger transcription factor. PRDM16 controls the cell fate between muscle and brown fat cells. Loss of PRDM16 from brown fat precursors causes a loss of brown fat characteristics and promotes muscle differentiation.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

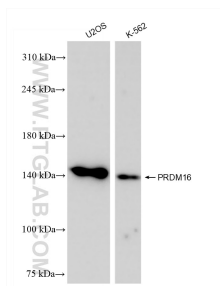
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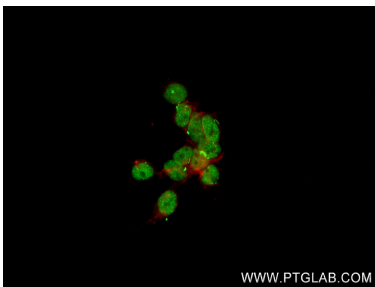
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83872-1-RR (PRDM16 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83872-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded mouse brown adipose tissue slide using 83872-1-RR (PRDM16 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83872-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using PRDM16 antibody (83872-1-RR, Clone: 240662D3) at dilution of 1:250 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83872-1-PBS in a different storage buffer formulation.