

For Research Use Only

# PRDM16 Recombinant antibody

Catalog Number: 83872-1-RR



## Basic Information

<b>Catalog Number:</b> 83872-1-RR	<b>GenBank Accession Number:</b> NM_022114	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 63976	<b>CloneNo.:</b> 240662D3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9HAZ2	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:50-1:500 IF/ICC 1:125-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> PR domain containing 16	
	<b>Calculated MW:</b> 140 kDa	
	<b>Observed MW:</b> ~140 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> U2OS cells, K-562 cells
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> mouse brown adipose tissue,
	<b>IF/ICC :</b> HEK-293 cells,

## 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

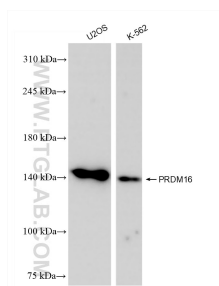
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

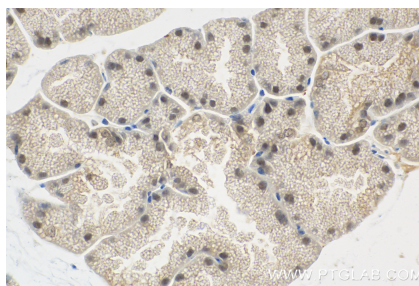
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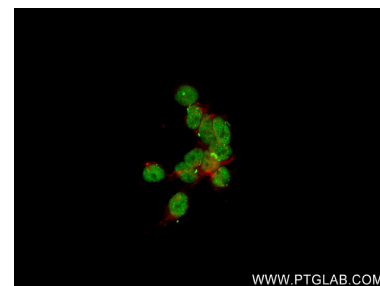
## Selected Validation Data



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.



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).



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).