

For Research Use Only

PERM1 Recombinant antibody

Catalog Number: 84425-5-RR



Basic Information

Catalog Number: 84425-5-RR	GenBank Accession Number: BC006300	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 84808	CloneNo.: 241613B6
Source: Rabbit	UNIPROT ID: Q5SV97	Recommended Dilutions: IHC 1:250-1:1000 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: chromosome 1 open reading frame 170	
Immunogen Catalog Number: AG23833		

Applications

Tested Applications: IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, rat	IHC : mouse skeletal muscle tissue, IF/ICC : H9C2 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

PERM1 (PGC-1/ERR-induced regulator in muscle 1) is a muscle-specific protein induced by PGC-1 α and ERR α . PERM1 protein expression is mainly restricted to heart and skeletal muscle, indicating PERM1 functions as a tissue-specific regulator of mitochondrial biogenesis in response to exercise (PMID: 33549681, 36028747). Ablation of Perm1 in mice results in reduced protein expression of lipin-1 accompanied by accumulation of specific phospholipid species (PMID: 33549681). There are two major isoforms of Perm1 protein, the short isoform is about 85 kDa, and the long isoform is 105 kDa.

Storage

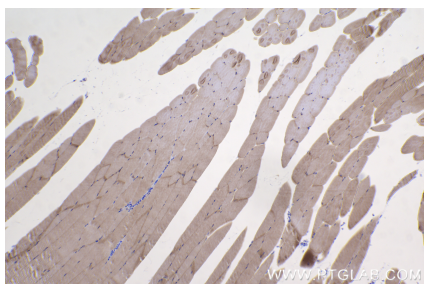
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

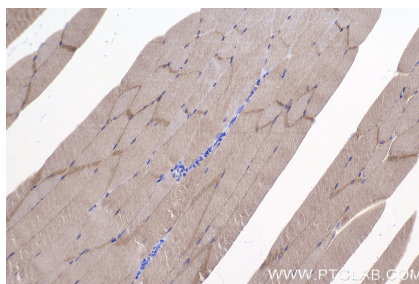
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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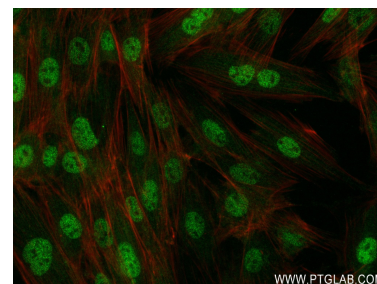
Selected Validation Data



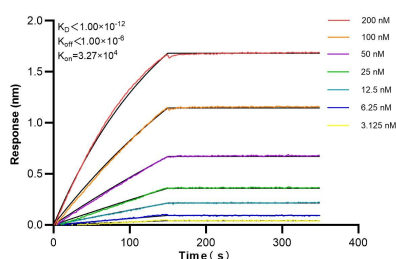
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 84425-5-RR (PERM1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 84425-5-RR (PERM1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed H9C2 cells using PERM1 antibody (84425-5-RR, Clone: 241613B6) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Bi-layer interferometry (BLI) kinetic assays of 84425-5-RR against Human PERM1 were performed. The affinity constant is below 1 pM.