

For Research Use Only

SYNM Polyclonal antibody

Catalog Number: 20735-1-AP **2 Publications**



Basic Information

Catalog Number: 20735-1-AP	GenBank Accession Number: NM_015286	Purification Method: Antigen affinity purification
Size: 400 µg/ml	GeneID (NCBI): 23336	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200 IF 1:10-1:100
Source: Rabbit	UNIPROT ID: O15061	
Isotype: IgG	Full Name: synemin, intermediate filament protein	
	Calculated MW: 173 kDa	
	Observed MW: 170-180 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls: WB : Y79 cells, human skeletal muscle tissue
Cited Applications: IF, IHC	IHC : human skeletal muscle tissue, human bladder tissue, human heart tissue
Species Specificity: human	IF : HeLa cells,
Cited Species: human	

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

SYNM, also named as DMN, KIAA0353 and SYN, belongs to the intermediate filament family. SYNM is a Type-VI intermediate filament (IF) which plays an important cytoskeletal role within the muscle cell cytoskeleton. It forms heteropolymeric IFs with desmin and/or vimentin, and via its interaction with cytoskeletal proteins alpha-dystrobrevin, dystrophin, talin-1, utrophin and vinculin, is able to link these heteropolymeric IFs to adherens-type junctions, such as to the costameres, neuromuscular junctions, and myotendinous junctions within striated muscle cells. The antibody can't recognize isoform 2 or 3 of SYNM.

Notable Publications

Author	Pubmed ID	Journal	Application
Siyu Chen	35361267	J Ovarian Res	IHC
Madeline G Andrews	33469577	bioRxiv	IF

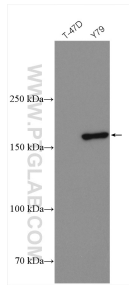
Storage

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

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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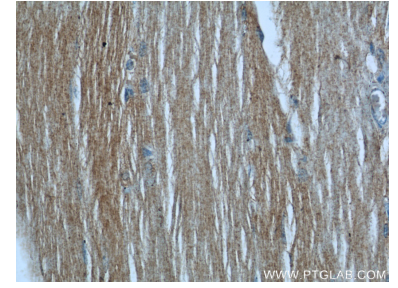
Selected Validation Data



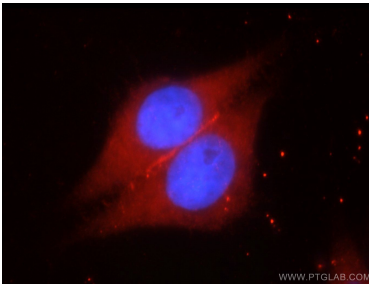
Y79 cells were subjected to SDS PAGE followed by western blot with 20735-1-AP (SYNM antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours. SYNM gene methylation in T-47D cells causes gene silencing.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 20735-1-AP (SYNM antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle using 20735-1-AP (SYNM antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 20735-1-AP (SYNM antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.