## SMN1 (2F1) Mouse mAb



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<b>Applications:</b> WB, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 35	Source/Isotype: Mouse IgG1	UniProt ID: #Q16637	Entrez-Gene Id: 6606
Product Usage Information	Арј	Application				Dilution
	We	stern Blotting				1:1000
	Imn	Immunoprecipitation				1:50
	Imn	Immunofluorescence (Immunocytochemistry)				1:400
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.				
Specificity / Sensitivity		SMN1 (2F1) Mouse mAb recognizes endogenous levels of total SMN1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human SMN1 protein.				
Background	(snR with also addi mRN	Survival of Motor Neuron 1 (SMN1) is essential for the maturation of small nuclear ribonucleoproteins (snRNPs) (1,2). SMN1 plays a role in the assembly of spliceosomal snRNPs in the cytoplasm, together with the Gemin proteins, and may also participate in the transport of snRNPs into the nucleus (3-6). SMN1 also participates in the maturation and turnover of snRNPs in nuclear foci Gemini bodies (gems) (7). In addition to the maturation of spliceosomal snRNPs, SMN1 has also been proposed to directly regulate premRNA splicing (8). Researchers have found mutations and deletions of the SMN1 gene are found in 95% of Spinal Muscular Atrophy (SMA) neuromuscular disorder cases (1,9).				
Background Refer	2. Pe 3. Lii 4. M 5. Na 6. Hi 7. He 8. Pe	<ol> <li>Nlend Nlend, R. et al. RNA Biol 7, 430-40.</li> <li>Pellizzoni, L. et al. (2002) Science 298, 1775-9.</li> <li>Liu, Q. et al. (1997) Cell 90, 1013-21.</li> <li>Meister, G. et al. (2001) Nat Cell Biol 3, 945-9.</li> <li>Narayanan, U. et al. (2002) Hum Mol Genet 11, 1785-95.</li> <li>Huber, J. et al. (1998) EMBO J 17, 4114-26.</li> <li>Hebert, M.D. et al. (2001) Genes Dev 15, 2720-9.</li> <li>Pellizzoni, L. et al. (1998) Cell 95, 615-24.</li> <li>Wirth, B. (2000) Hum Mutat 15, 228-37.</li> </ol>				

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity** 

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) **Applications Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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