OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA389035

SMN1 Mouse Monoclonal Antibody [Clone ID: 4B7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4B7
Applications:	ICC, WB
Recommended Dilution:	**WB**: 1:4000 **ICC**: 1:50-1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant human SMN protein.
Specificity:	Specific for endogenous levels of the ~35 kDa survival motor neuron protein.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	35
Gene Name:	survival of motor neuron 1, telomeric
Database Link:	Entrez Gene 6606 Human Q16637

View online »

Background: Survival Motor Neuron (SMN) protein, also known as Gemin1, is derived from the SMN gene which has two nearly identical copies located on chromosome 5q13, SMN1 and SMN2 (Lefebvre et al, 1995). SMA, Spinal Muscular Atrophy, is a neurodegenerative disease caused by mutations of the SMN gene that result in a loss of motor neurons and subsequent progressive limb and trunk muscular atrophy and paralysis (Crawford et al, 1996). SMN1 produces functional, full-length SMN protein, while SMN2 encodes a truncated form of SMN protein that is unstable and defective (Wolstencroft et al., 2005). SMN2 plays a key role in the development of SMA in that the number of SMN2 copies modulates disease severity (Monani et al, 2000). The SMN protein is expressed ubiquitously and found in the cytoplasm as well as nuclear Cajal bodies (Young et al, 2000).

Synonyms: BCD541; Gemin-1; SMA; SMA1; SMA2; SMA3; SMA4; SMA@; SMN; SMNC; SMNT; T-BCD541

Note: Protein G purified tissue culture supernatant.