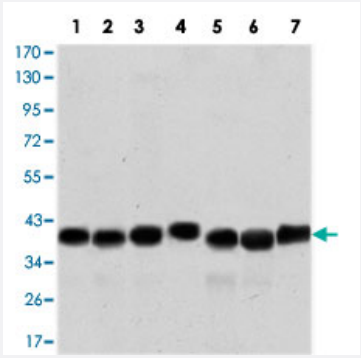
SMN1 monoclonal antibody, clone 2F1

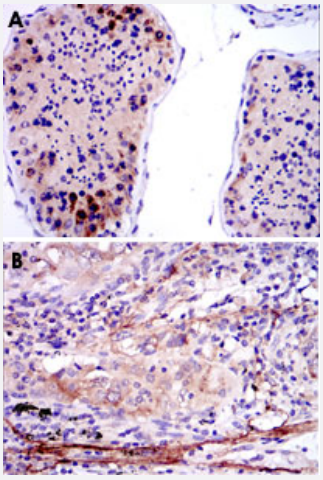
Catalog # MAB10323 Size 100 uL

Applications



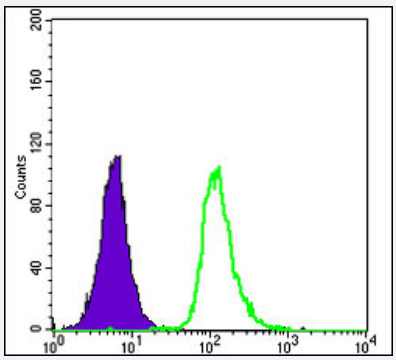
Western Blot (Cell lysate)

Western blot analysis using SMN1 monoclonal antobody, clone 2F1 (Cat # MAB10323) against HepG2 (1), HeLa (2), K-562 (3), Jurkat (4), SK-BR-3 (5), A-431 (6) and COS-7 (7) cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human testis tissue (A) and lung cancer tissue (B) using SMN1 monoclonal antobody, clone 2F1 (Cat # MAB10323) with DAB staining.



Flow Cytometry

Flow cytometric analysis of HepG2 cells using SMN1 monoclonal antobody, clone 2F1 (Cat # MAB10323) (green) and negative control (purple).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant SMN1.
Immunogen	Recombinant protein corresponding to human SMN1.
Host	Mouse
Theoretical MW (kDa)	39
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human testis tissue (A) and lung cancer tissue (B) using SMN1 monoclonal antobody, clone 2F1 (Cat # MAB10323) with DAB staining.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

  Flow cytometric analysis of HepG2 cells using SMN1 monoclonal antobody, clone 2F1 (Cat # MAB10323) (green) and negative control (purple).

Gene Info — SMN1

Entrez GeneID	6606
Gene Name	SMN1
Gene Alias	BCD541, SMA, SMA1, SMA2, SMA3, SMA4, SMA@, SMN, SMNT, T-BCD541
Gene Description	survival of motor neuron 1, telomeric
Omim ID	253300 253400 253550 271150 600354
Gene Ontology	Hyperlink
Gene Summary	This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region c ontains at least four genes and repetitive elements which make it prone to rearrangements and d eletions. The repetitiveness and complexity of the sequence have also caused difficulty in determi ning the organization of this genomic region. The telomeric and centromeric copies of this gene a re nearly identical and encode the same protein. However, mutations in this gene, the telomeric c opy, are associated with spinal muscular atrophy; mutations in the centromeric copy do not lead t o disease. The centromeric copy may be a modifier of disease caused by mutation in the telomer ic copy. The critical sequence difference between the two genes is a single nucleotide in exon 7, which is thought to be an exon splice enhancer. Note that the nine exons of both the telomeric and centromeric copies are designated historically as exon 1, 2a, 2b, and 3-8. It is thought that gene c onversion events may involve the two genes, leading to varying copy numbers of each gene. The protein encoded by this gene localizes to both the cytoplasm and the nucleus. Within the nucleus, t he protein localizes to subnuclear bodies called gems which are found near coiled bodies contain ing high concentrations of small ribonucleoproteins (snRNPs). This protein forms heteromeric co mplexes with proteins such as SIP1 and GEMIN4, and also interacts with several proteins known t o be involved in the biogenesis of snRNPs, such as hnRNP U protein and the small nucleolar RNA binding protein. Two transcript variants encoding distinct isoforms have been described. [provide d by RefSeq
Other Designations	OTTHUMP00000125198|gemin 1

Disease

- Acute Disease
- Amyotrophic lateral sclerosis
- Chronic Disease

- Disease Progression
- Genetic Predisposition to Disease
- Muscular Atrophy
- Nerve Degeneration
- Spinal Muscular Atrophies of Childhood
- Spinal muscular atrophy