

## SMN1 Monoclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-MCA1145
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Size</b>	50ul, 100ul
<b>Immunogen</b>	Purified recombinant fragment of human SMN1 expressed in E. Coli.
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human,Monkey
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB, IHC-p, IF, ICC, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Survival motor neuron protein
<b>Synonyms</b>	SMN1; SMN; SMNT; SMN2; SMNC; Survival motor neuron protein; Component of gems 1; Gemin-1

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region contains at least four genes and repetitive elements which make it prone to rearrangements and deletions. The repetitiveness and complexity of the sequence have also caused difficulty in determining the organization of this genomic region. The telomeric and centromeric copies of this gene are nearly identical and encode the same protein. However, mutations in this gene, the telomeric copy, are associated with spinal muscular atrophy| mutations in the centromeric copy do not lead to disease. The centromeric copy may be a modifier of disease caused by mutation in the telomeric 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 des

### Recommended Dilution

ELISA: 1:10000

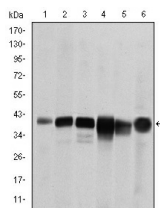
IF: 1:200 - 1:1000

IHC: 1:200 - 1:1000

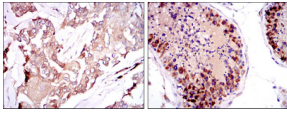
WB: 1:500 - 1:2000

Not yet tested in other applications.

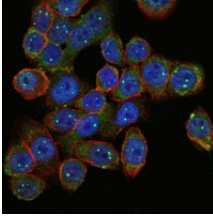
### Images



Western Blot analysis using SMN1 Monoclonal antibody against RAJI (1) Cos7 (2) Jurkat (3) K562 (4) HeLa (5) and HepG2 (6) cell lysate.



Immunohistochemistry analysis of paraffin-embedded breast cancer tissues (left) and testis tissues (right) with DAB staining using SMN1 Monoclonal antibody.



Immunofluorescence analysis of HepG2 cells using SMN1 Monoclonal antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

### Storage

-20°C for one year

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