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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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SMN2 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # : H00006607-T01

規格 : [100 uL]

List All

Specification

Transfected Cell Line: 293T

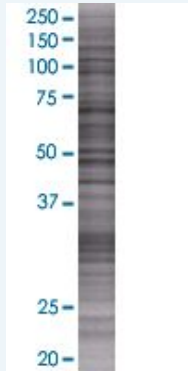
Plasmid: pCMV-SMN2 full-length

Host: Human

Theoretical MW (kDa): 30.5

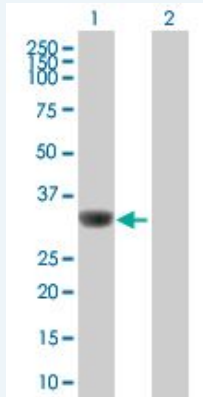
Quality Control Testing: Transient overexpression cell lysate was tested with Anti-SMN2 antibody (H00006607-B01) by Western Blots.

SDS-PAGE Gel



SMN2 transfected lysate.

Western Blot



Lane 1: SMN2 transfected lysate (30.5 KDa)

Lane 2: Non-transfected lysate.

Storage Buffer: 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

MSDS:  [Download](#)

Applications

Western Blot

Gene Information

Entrez GeneID: [6607](#)

GeneBank Accession#: [NM_022875](#)

Protein Accession#: [NP_075013.1](#)

Gene Name: SMN2

Gene Alias: BCD541,C-BCD541,FLJ76644,MGC20996,MGC5208,SMNC

Gene Description: survival of motor neuron 2, centromeric

Omim ID: [601627](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: 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. While mutations in the telomeric copy are associated with spinal muscular atrophy, mutations in this gene, the centromeric copy, do not lead to disease. This gene 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 designated historically as exon 1, 2a, 2b, and 3-8. It is thought that gene conversion events may involve the two genes, leading to varying copy numbers of each gene. The full length protein encoded by this gene localizes to both the cytoplasm and the nucleus. Within the nucleus, the protein localizes to subnuclear bodies called gems which are found near coiled bodies containing high concentrations of small ribonucleoproteins (snRNPs). This protein forms heteromeric complexes with proteins such as SIP1 and GEMIN4, and also interacts with several proteins known to be involved in the biogenesis of snRNPs, such as hnRNP U protein and the small nucleolar RNA binding protein. Four transcript variants encoding distinct isoforms have been described. [provided by RefSeq]

Other Designations: OTTHUMP00000125236,OTTHUMP00000125237,gemin 1

Related Disease

[Amyotrophic Lateral Sclerosis](#) [Amyotrophic lateral sclerosis Disease Progression](#) [Genetic Predisposition to Disease](#) [Muscular Atrophy, Spinal Nerve Degeneration](#) [Spinal Muscular Atrophies of Childhood](#) [Spinal muscular atrophy](#)