For Research Use Only

CoraLite® Plus 488-conjugated SMN-Exon7 Monoclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number:CL488-60255

Basic Information

Catalog Number:
CL488-60255

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG16615

GenBank Accession Number:
BC062723

GeneID (NCBI):
6606

Full Name:
survival of motor neuron 1, telomeric

Calculated MW:
294 aa, 32 kDa

Observed MW:
40 kDa

Purification Method:
Protein G purification

CloneNo.:
3A8G11

Recommended Dilutions:
IF 1:50-1:500

Excitation/Emission maxima wavelengths:
488 nm / 515 nm

Applications

Tested Applications:
IF

Species Specificity:
human, mouse

Positive Controls:

IF : HepG2 cells,

Background Information

Spinal muscular atrophy (SMA) is an autosomal recessive neurodegenerative disease characterized by loss of anterior horn cells in the spinal cord and concomitant symmetrical muscle weakness and atrophy (PMID: 16364894). SMA is caused by deletion or mutations of the survival motor neuron (SMN1) gene. SMA patients lack a functional SMN1 gene, but they possess an intact SMN2 gene, which though nearly identical to SMN1, is only partially functional (PMID: 17355180). A large majority of SMN2 transcripts lack exon 7, resulting in production of a truncated, less stable SMN protein (PMID: 10369862). The level of SMN protein correlates with phenotypic severity of SMA. This antibody, 60255-1-Ig, raised against the C-terminal region (275-294aa) encoded by the exon 7.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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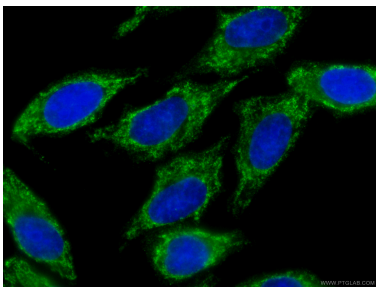
Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL488-60255 (SMN-Exon7 antibody) at dilution of 1:100.