For Research Use Only

SMN Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number:86668-2-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
86668-2-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG4812

GenBank Accession Number:
BC015308

GeneID (NCBI):
6607

UNIPROT ID:
Q16637

Full Name:
survival of motor neuron 2, centromeric

Calculated MW:
30 kDa

Observed MW:
38 kDa

Purification Method:
Protein A purification

CloneNo.:
251620C4

Applications

Tested Applications:
WB, IF/ICC, IP, Cytometric bead array, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

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.

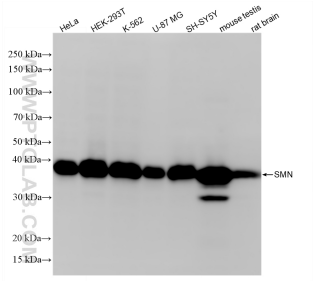
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

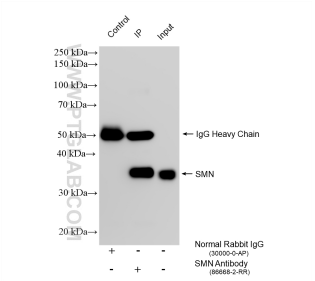
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

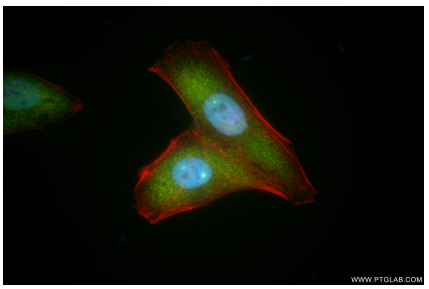
Selected Validation Data



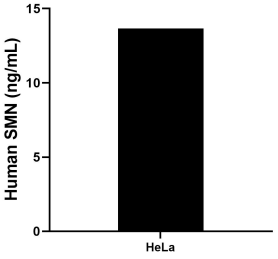
Various lysates were subjected to SDS PAGE followed by western blot with 86668-2-RR (SMN antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86668-2-PBS in a different storage buffer formulation.



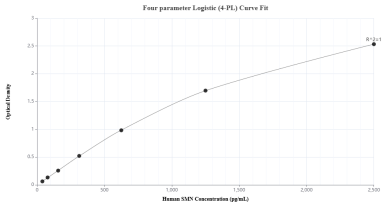
IP result of anti-SMN (IP: 86668-2-RR, 4 ug; Detection: 86668-2-RR 1:600) with HEK-293 cells lysate 1200 ug. This data was developed using the same antibody clone with 86668-2-PBS in a different storage buffer formulation.



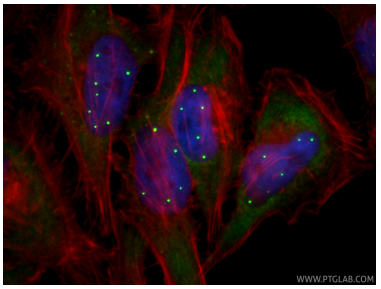
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMN antibody (86668-2-RR, Clone: 251620C4) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86668-2-PBS in a different storage buffer formulation.



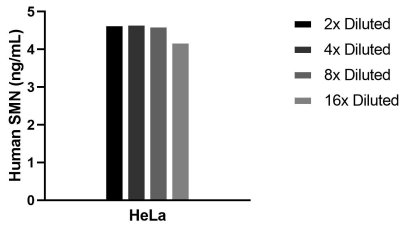
The mean SMN concentration was determined to be 13.66 ng/mL in HeLa cell extract based on a 1.2 mg/mL extract load.



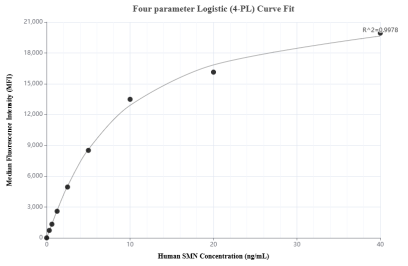
Sandwich ELISA standard curve of MP02580-1, Human SMN Recombinant Matched Antibody Pair - PBS only. 86668-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg4812. 86668-1-PBS was HRP conjugated as the detection antibody. Range: 39.1-2500 pg/mL



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SMN antibody (86668-2-RR, Clone: 251620C4) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red). This data was developed using the same antibody clone with 86668-2-PBS in a different storage buffer formulation.



The mean SMN concentration was determined to be 4.5 ng/mL in HeLa cell extract based on a 1.1 mg/mL extract load.



Cytometric bead array standard curve of MP02580-1, SMN Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86668-2-PBS. Detection antibody: 86668-1-PBS. Standard: Eg4812. Range: 0.312-40 ng/mL.