G-Biosciences Image not found or type unknown

Immunotag™ SMN1 Antibody

Antibody Specification

Catalog No.	ITA7926
Product Description	Immunotag™ SMN1 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	SMN1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:1000-3000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human SMN1
Specificity	SMN1 Antibody detects endogenous levels of total SMN1
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	SMN1; SMN2
Accession No.	Q16637
Alternate Names	BCD541; Component of gems 1; Gemin 1; Gemin-1; OTTHUMP00000125198; OTTHUMP00000223567; OTTHUMP00000223568; OTTHUMP00000224066; OTTHUMP00000226924; SMA 1; SMA 2; SMA 3; SMA 4; SMA; SMA@; SMA1; SMA2; SMA3; SMA4; SMN; SMN_HUMAN; SMN1; SMN2; SMNT; Survival motor neuron protein; Survival of motor neuron 1, telomeric; T-BCD541;

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Description	The SMN complex plays a catalyst role in the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus. Ensures the correct splicing of U12 intron-containing genes that may be important for normal motor and proprioceptive neurons development. Also required for resolving RNA-DNA hybrids created by RNA polymerase II, that form R-loop in transcription terminal regions, an important step in proper transcription termination. May also play a role in the metabolism of small nucleolar ribonucleoprotein (snoRNPs).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	32 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.