

## MAP1LC3B siRNA (Rat)

Catalog #	Source	Reactivity	Applications
CRR2007	Synthetic	R	RNAi
<b>Description</b>	siRNA to inhibit MAP1LC3B expression using RNA interference		
<b>Specificity</b>	MAP1LC3B siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.		
<b>Form</b>	Lyophilized powder		
<b>Gene Symbol</b>	MAP1LC3B		
<b>Alternative Names</b>	MAP1ALC3; MAP1LC3; Microtubule-associated proteins 1A/1B light chain 3B; Autophagy-related protein LC3 B; Autophagy-related ubiquitin-like modifier LC3 B; MAP1 light chain 3-like protein 2; MAP1A/MAP1B light chain 3 B; MAP1A/MAP1B LC3 B; Microtubule-assoc		
<b>Entrez Gene</b>	64862 (Rat)		
<b>SwissProt</b>	Q62625 (Rat)		
<b>Purity</b>	> 97%		
<b>Quality Control</b>	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.		
<b>Components</b>	We offers pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat MAP1LC3B gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot.		

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

### COHESION BIOSCIENCES LIMITED

**WEB**  
www.cohesionbio.com

**ORDER**  
order@cohesionbio.com

**SUPPORT**  
techsupport@cohesionbio.com

**CUSTOM**  
custom@cohesionbio.com

# Product Data Sheet

Component	15 nmol	30 nmol
MAP1LC3B siRNA (Rat) - A	5 nmol x 1	5 nmol x 2
MAP1LC3B siRNA (Rat) - B	5 nmol x 1	5 nmol x 2
MAP1LC3B siRNA (Rat) - C	5 nmol x 1	5 nmol x 2
Negative Control	2.5 nmol x 1	2.5 nmol x 2
DEPC Water	1 ml x 1	1 ml x 2

## Directions for Use

We recommends transfection with 10 nM - 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For example, resuspend one tube of 5 nmol siRNA oligo in 250  $\mu$ l of DEPC water to get a final concentration of 20  $\mu$ M.

Plate	Final volume of medium	Final concentration of siRNA	siRNA (20 $\mu$ M)	Lipofectamin 2000
96-well	100 $\mu$ l	100 nM	0.5 $\mu$ l	0.25 $\mu$ l
		50 nM	0.25 $\mu$ l	0.25 $\mu$ l
		10 nM	0.05 $\mu$ l	0.25 $\mu$ l
24-well	500 $\mu$ l	100 nM	2.5 $\mu$ l	1 $\mu$ l
		50 nM	1.25 $\mu$ l	1 $\mu$ l
		10 nM	0.25 $\mu$ l	1 $\mu$ l
12-well	1 ml	100 nM	5 $\mu$ l	2 $\mu$ l
		50 nM	2.5 $\mu$ l	2 $\mu$ l
		10 nM	0.5 $\mu$ l	2 $\mu$ l
6-well	2 ml	100 nM	10 $\mu$ l	5 $\mu$ l
		50 nM	5 $\mu$ l	5 $\mu$ l

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

## COHESION BIOSCIENCES LIMITED

### WEB

[www.cohesionbio.com](http://www.cohesionbio.com)

### ORDER

[order@cohesionbio.com](mailto:order@cohesionbio.com)

### SUPPORT

[techsupport@cohesionbio.com](mailto:techsupport@cohesionbio.com)

### CUSTOM

[custom@cohesionbio.com](mailto:custom@cohesionbio.com)

# Product Data Sheet

10 nM

1  $\mu$ l

5  $\mu$ l

**Storage/Stability**

Shipped at 4 °C. Store at -20 °C for one year.

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

## COHESION BIOSCIENCES LIMITED

**WEB**

[www.cohesionbio.com](http://www.cohesionbio.com)

**ORDER**

[order@cohesionbio.com](mailto:order@cohesionbio.com)

**SUPPORT**

[techsupport@cohesionbio.com](mailto:techsupport@cohesionbio.com)

**CUSTOM**

[custom@cohesionbio.com](mailto:custom@cohesionbio.com)