



## MONOCLONAL ANTIBODY

For research use only, Not for diagnostic use.

Catalog No. SHI-EXO-M04

## Anti CD91 (LRP1) [ Clone : B3-3E11 ]

## BACKGROUND

Low-density lipoprotein (LDL) receptor-related protein-(LRP1, CD91)<sup>1</sup> as a high-affinity endocytic receptor for myelin-associated glycoprotein (MAG)<sup>2</sup>, that binds ligands and exhibits signaling properties<sup>3</sup>, and known to play roles in areas as diverse as lipoprotein metabolism, degradation of proteases, activation of lysosomal enzymes and cellular entry of bacterial toxins and viruses<sup>4</sup>.

Cargo transport by members of the LDL receptor family appears to be intimately coupled to the regulation of cellular physiology<sup>5</sup>. CD91 (LRP1) has been shown to be potential exosomal marker of NSCLC (Non-Small Cell Lung Cancer)<sup>6</sup>, its expression is associated with improved lung cancer outcomes<sup>7</sup>, and its agonists promote regeneration after spinal cord injury<sup>8</sup>.

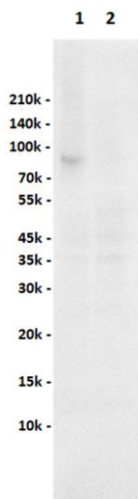
<b>Product type</b>	Primary antibody
<b>Immunogen</b>	Human CD91 extracellular region -FLAG-rabbit Fc
<b>Raised in</b>	Mouse
<b>Myeloma</b>	-
<b>Clone number</b>	B3-3E11
<b>Isotype</b>	IgG1 $\kappa$
<b>Source</b>	Culture supernatant
<b>Purification</b>	Affinity purified by Protein G
<b>Buffer</b>	Phosphate buffered saline, 0.1%NaN <sub>3</sub>
<b>Concentration</b>	1 mg/mL
<b>Volume</b>	100 $\mu$ L
<b>Label</b>	Unlabeled
<b>Specificity</b>	Human CD91
<b>Cross reactivity</b>	Human. Other species are not tested.
<b>Storage</b>	Store below - 40°C Aliquot to avoid cycles of freeze/thaw.

<b>Application notes</b>	• <b>Western blotting:</b> 1/500 (2 $\mu$ g/mL, non-reductive condition)
<b>Recommended dilutions</b>	• <b>Immunocytochemistry:</b> 1/200 (10 $\mu$ g/mL) * Experiment example : SJRH30 cell line

Other applications have not been tested.  
Optimal dilutions/concentrations should be determined by the end user.

<b>References</b>	1) Herz J, et al., <i>EMBO J.</i> 1988 Dec 20;7(13):4119-27. PMID: <a href="#">3266596</a> . 2) Stiles TL, et al., <i>J Cell Sci.</i> 2013 Jan 1;126(Pt 1):209-20. PMID: <a href="#">23132925</a> . 3) Etique N, et al., <i>Biomed Res Int.</i> 2013;152163. PMID: <a href="#">23936774</a> 4) Lillis AP, et al., <i>J Thromb Haemost.</i> 2005 Aug;3(8):1884-93. PMID: <a href="#">16102056</a> 5) Strickland DK, et al., <i>Trends Endocrinol Metab.</i> 2002 Mar;13(2):66-74. PMID: <a href="#">11854021</a> 6) Huang SH, et al., <i>Cancer Invest.</i> 2013;31: 330–335. PMID: <a href="#">23614656</a> 7) Meng H, et al., <i>Clin Cancer Res.</i> 2011 Apr 15;17(8):2426-33. PMID: <a href="#">21325077</a> 8) Yoon C, et al., <i>J Biol Chem.</i> 2013 Sep 13;288(37):26557-68. PMID: <a href="#">23867460</a>
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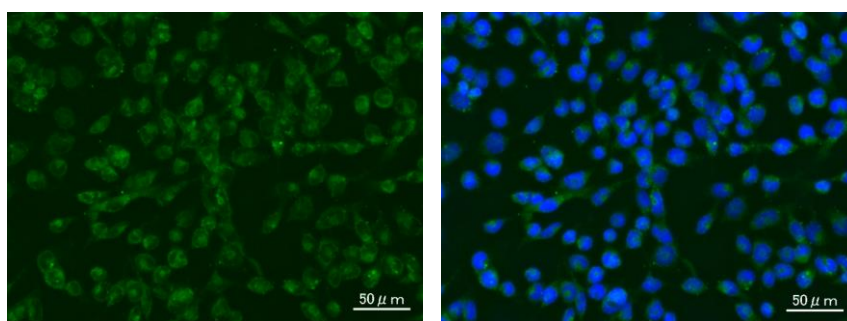
## ANTIBODY CHARACTERIZATION



Sample:  
 SJRH30 cell lysate  
 Primary antibody:  
 anti-CD91 (B3-3E11) (2 ug/mL)  
 Secondary antibody:  
 Anti-IgG (H+L), Mouse (Goat) - HRP (1:2000)  
 \* SouthernBiotech, Cat.No.1031-05

Lane 1: non-reductive condition  
 Lane 2: reduced condition

**Fig.1** Western blot analysis of CD91 in SJRH30 cell lysate with anti-CD91 (B3-3E11) antibody



**Fig.2** Immunocytochemistry of SJRH30 cell line

Sample:  
 SJRH30 cell line  
 Primary antibody:  
 anti-CD91 (B3-3E11) (10 ug/mL)  
 Secondary antibody:  
 Anti-Mouse IgG-Alexa Fluor 488 (8 ug/mL)  
 Nuclear staining:  
 Hoechst 33342 (Green: antibody, Blue: stained nucleus)

## RELATED PRODUCTS:

Product Name	Application	Quantity	Maker	Cat#
Anti CD9 (12A12) Monoclonal Antibody	WB / IP / ELISA / FC/ EM/ IF	100 uL	CAC	SHI-EXO-M01
Anti CD63 (8A12) Monoclonal Antibody	WB / IP / ELISA / FC/ EM/ IF	100 uL	CAC	SHI-EXO-M02
Anti CD81 (12C4) Monoclonal Antibody	WB / IP / ELISA / FC/ EM/ IF	100 uL	CAC	SHI-EXO-M03
Anti EpCAM (BT-11C5) Monoclonal Antibody	WB / IC	100 uL	CAC	SHI-EXO-M05

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