

## PE/Cyanine7 anti-mouse CD91 Antibody

<b>Catalog# / Size</b>	111905 / 25 µg 111906 / 100 µg
<b>Clone</b>	W19299B
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	LRP1, LDL Receptor Related Protein 1
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	CD91, also known as LRP1, is a transmembrane endocytic and cell signaling protein that regulates diverse cellular functions in the brain, liver, kidney, lung, and vasculature. The alpha and beta chains of LRP1 form a transmembrane receptor on the plasma membrane that plays a role in receptor-mediated endocytosis and lipoprotein metabolism. LRP1 gene encodes a 4545 amino acid precursor protein that is processed in the trans-Golgi complex into the 505 kD. It is involved in phagocytosis of apoptotic cells and cellular liquid homeostasis, as well as the plasma clearance of chylomicron remnants and activated LRPAP1 (alpha 2-macroglobulin). CD91 is also essential to the local metabolism of complexes between plasminogen activators and their endogenous inhibitors. CD91 acts as an alpha-2-macroglobulin receptor and TAU/MAPT receptor and controls the endocytosis of TAU/MAPT as well as its subsequent spread and is required for early embryonic development.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>RRID</b>	AB_3698896 (BioLegend Cat. No. 111905) AB_3698896 (BioLegend Cat. No. 111906)

### Antigen Details

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<b>Structure</b>	505 kD with 4545 a.a.
<b>Distribution</b>	Tissue Distribution: brain, lung, adipose tissue, and reproductive system Cellular Distribution: plasma membrane, nucleus, cytosol, lysosome, and endosome

<b>Function</b>	Endocytosis, phagocytosis of apoptotic cells, cellular lipid homeostasis
<b>Interaction</b>	LRPAP1, TAU/MAPT
<b>Ligand/Receptor</b>	Alpha-2-macroglobulin receptor and TAU/MAPT receptor
<b>Cell Type</b>	Macrophages, Microglia, Oligodendrocytes
<b>Biology Area</b>	Cell Motility/Cytoskeleton/Structure, Immunology, Protein Trafficking and Clearance, Signal Transduction
<b>Molecular Family</b>	Apolipoproteins, Tumor Suppressors
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Herz J, <i>et al.</i> 1992. <i>Cell</i>. 71:411-21.</li> <li>2. Jennifer N.R., <i>et al.</i> 2020. <i>Natural</i>. 580(7803):381.</li> </ol>
<b>Gene ID</b>	<a href="#">16971</a>

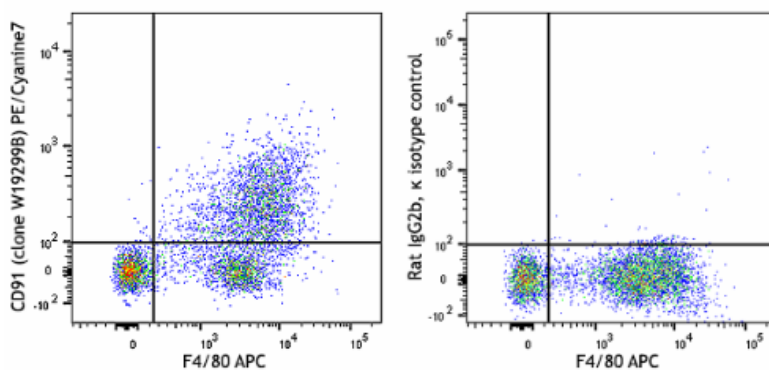
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse CD91, APC anti-mouse CD91 , PE/Cyanine7 anti-mouse CD91 Antibody, PE anti-mouse CD91 Antibody

## Product Data



Thioglycolate-elicited BALB/c mouse peritoneal macrophages were stained with anti-mouse F4/80 (clone BM8) APC and anti-mouse CD91 (clone W19299B) PE/Cyanine7 (left) or rat IgG2b, κ PE/Cyanine7 isotype control (right).

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