

APC anti-mouse CD91 Antibody

Catalog# / Size	111903 / 25 µg 111904 / 100 µg
Clone	W19299B
Regulatory Status	RUO
Other Names	LRP1, LDL Receptor Related Protein 1
Isotype	Rat IgG2b, κ
Description	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

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)

Antigen Details

Structure	505 kD with 4545 a.a.
Distribution	Tissue Distribution: brain, lung, adipose tissue, and reproductive system Cellular Distribution: plasma membrane, nucleus, cytosol, lysosome, and endosome
Function	Endocytosis, phagocytosis of apoptotic cells, cellular lipid homeostasis
Interaction	LRPAP1, TAU/MAPT

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

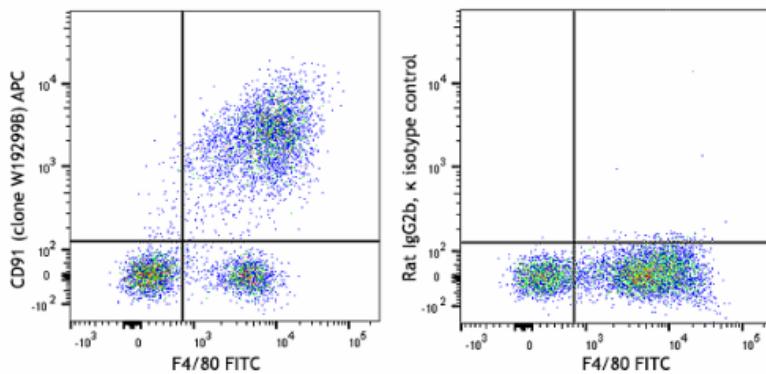
Related Protocols

- [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) FITC and anti-mouse CD91 (clone W19299B) APC (left) or rat IgG2b, κ APC isotype control (right)

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