

InVivoMAb anti-mouse/human/rat LRP1 (CD91)

Lot Specific Information

Lot Number:	Lot Specific*
Volume:	Lot Specific*
Concentration:	Lot Specific* (generally 4 to 11 mg/ml) *
Total Protein:	Lot Specific*

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number:	BE0333
Clone:	11H4
Isotype:	Mouse IgG1, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG1 isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Peptide corresponding to the 13 C-terminal amino acids of human LRP1
Reported Applications:	Western blot Immunofluorescence Immunoprecipitation
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<2EU/mg (<0.002EU/ μ g) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 μ m filtered
Production:	Purified from tissue culture supernatant in an animal free facility
Purification:	Protein G
RRID:	
Molecular Weight:	150 kDa

Description

The 11H4 monoclonal antibody reacts with mouse, human, and rat low density lipoprotein receptor-related protein 1 (LRP1), also known as alpha-2-macroglobulin receptor (A2MR), apolipoprotein E receptor (APOER) and CD91. LRP1 is synthesized as a signal polypeptide chain that undergoes cleavage, shortly after synthesis, into the 85 kDa transmembrane β chain that non-covalently binds to the extracellular 500-515 kDa α chain. The 11H4 antibody binds to the β chain of LRP1. LRP1 is an endocytic receptor involved with intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. Additionally, LRP1 is the primary receptor mediating transport of amyloid beta ($A\beta$) peptides across the blood-brain barrier into circulation, thereby clearing them from the brain. Dysfunction of LRP1 may be a contributing factor in the development of Alzheimer's disease.

Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**

All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at bxcell.com/faqs.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit <https://bxcell.com/product/invivomab-anti-mouse-human-rat-lrp1-cd91/#references> or scan the QR code below.

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