Technical Data Sheet

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

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

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:	≤1EU/mg (≤0.001EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtration
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	AB_2894753
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 (Aβ) 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.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**
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 https://bioxcell.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://bioxcell.com/be0333?bxcs=9k1b3a#tab_references or scan the QR code below.

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