

BDCA2 Transgenic Mice

Biomaterial – Mouse

Biomaterial Description

Researchers in Prof. Edward Clark's laboratory have developed a B6-BDCA2 transgenic mouse model that expresses human BDCA2 on plasmacytoid dendritic cells (pDCs). The BDCA2 mice are a useful tool for testing the role of BDCA2 in vivo. This unique model enables precise targeting of antigens to pDCs, facilitating advanced studies in immunologic tolerance and immune response modulation.

Applications

-Autoimmune Disease Research: Utilize BDCA2 Transgenic Mice to explore mechanisms of immunologic tolerance and develop potential therapies for autoimmune conditions.

-Vaccine Development: Investigate the role of pDCs in vaccine efficacy and design strategies to enhance immune responses through targeted antigen delivery.

Advantages

-Specificity: The BDCA2 Transgenic Mice express human BDCA2 exclusively on pDCs, allowing for highly specific antigen targeting and immune response studies.

Distributor Information

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References

1. Chappell, C. P., Giltiay, N. V., Draves, K. E., Chen, C., Hayden-Ledbetter, M. S., Shlomchik, M. J., Kaplan, D. H., Clark, E. A. (2014) , <https://pmc.ncbi.nlm.nih.gov/articles/PMC4048786/>, <https://academic.oup.com/jimmunol>, 192, 5789-5801

Technology ID

INV 47745

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Research Tools/Biological
Materials/Mouse

Authors

Edward Clark

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