LYMPH NODE TISSUE SECTIONING

PROTOCOL FOR CUTTING SLICES OF LYMPH NODE TISSUE

Key to reading the protocol:

√ Rationale for procedural step

♠ Tips & Tricks

1. Obtain lymph node and spleen from animal of choice.
2. Immediately freeze in OCT and/or formalin fixed and embedded in paraffin.
3. Select a section of the spleen that you would like to take cut for slices.
4. Glue the tissue sample onto the Compresstome® specimen syringe.
5. Draw the syringe downward to bring the lymph node tissue core sample into the syringe.
6. Fill the syringe with 2% agarose (Sigma A-0701, low gelling point, incubated at ~37°C).
    a. Order a Starter Kit or additional agarose or blades directly from our website at http://www.precisionary.com/starter-kit !
7. Cool the entire contents of the specimen syringe with the chilling block. The lymph node tissue is now embedded in agarose. The agarose will solidify enough for stable sectioning.
8. Load the specimen syringe onto the Compresstome® slicer.
9. The protocol is complete for preparing the lymph node for sectioning. Proceed from here with normal Compresstome® sectioning procedures.

References

*** Uses the Compresstome® for successful lymph node tissue slices.**

1. **Li S, Folkvord JM, Rakasz EG, Abdelaal HM, Wagstaff RK, Kovacs KJ, Kim HO,Sawahata R, MaWhinney S, Masopust D, Connick E, Skinner PJ. Simian Immunodeficiency Virus-Producing Cells in Follicles Are Partially Suppressed by CD8+ Cells In Vivo. J Virol. 2016 Nov 28;90(24):11168-11180. Print 2016 Dec 15. PubMed PMID: 27707919; PubMed Central PMCID: PMC5126374.**

2. **Roberts EW, Broz ML, Binnewies M, Headley MB, Nelson AE, Wolf DM, Kaisho T, Bogunovic D, Bhardwaj N, Krummel MF. Critical Role for CD103(+)/CD141(+) Dendritic Cells Bearing CCR7 for Tumor Antigen Trafficking and Priming of T Cell Immunity in Melanoma. Cancer Cell. 2016 Aug 8;30(2):324-36. doi:10.1016/j.ccell.2016.06.003. Epub 2016 Jul 14. PubMed PMID: 27424807; PubMed Central PMCID: PMC5374862.**