

Catalogue# **09-991-AVM100**

**AV marker for cell blocks**

(100 AV markers per unit)

## AV Marker

AV marker is a dark beacon which is incorporated in the cell block for facilitating the proper monitoring of depth while cutting the cell blocks on the microtome [1].

Without the AV marker, the depth of most of the cell blocks with scant, colorless cellular material may be difficult to judge. This leads to cutting too deep in to the cell block with loss of diagnostic cells or too superficial without any cells in the sections. [1]

AV marker also acts as a reference point to orient the sections on different slides while interpreting the coordinate immunostaining with SCIP (Subtractive Coordinate Immunoreactivity Pattern) approach [2] for evaluating the immunocytochemistry in the cell block sections.

### References:

1. Varsegi G.M., Shidham V. (2009). Cell Block Preparation from Cytology Specimen with Predominance of Individually Scattered Cells. *J Vis Exp. (JoVE- Journal of Visualized Experiments)* 2009 Jul 21;(29). pii: 1316.

doi: 10.3791/1316. PMID: 19623160

Video article is available FREE on web as open access at-

<http://www.jove.com/index/Details.stp?ID=1316>

2. Shidham VB, Atkinson BF. Immunocytochemistry of effusion fluids: Introduction to the SCIP approach. In: Shidham VB and Atkinson BF. Editors '*Cytopathologic Diagnosis of Serous Fluids*' First edition, Elsevier (W. B. Saunders Company); 2007. Ch 5, pp. 55-78.

**AV Marker for Cell Blocks**



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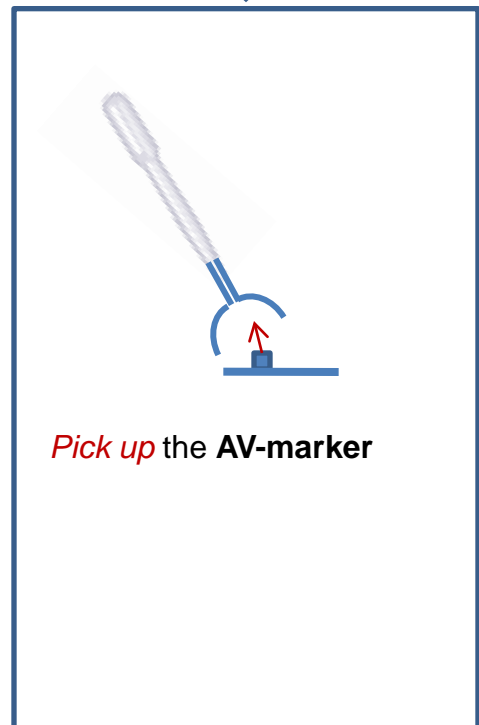
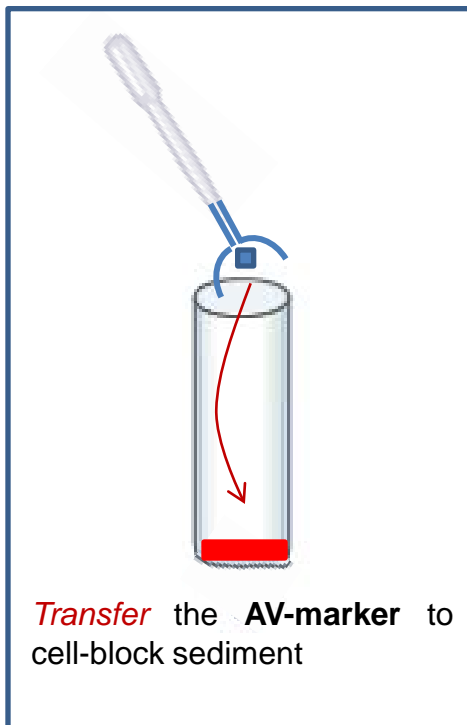
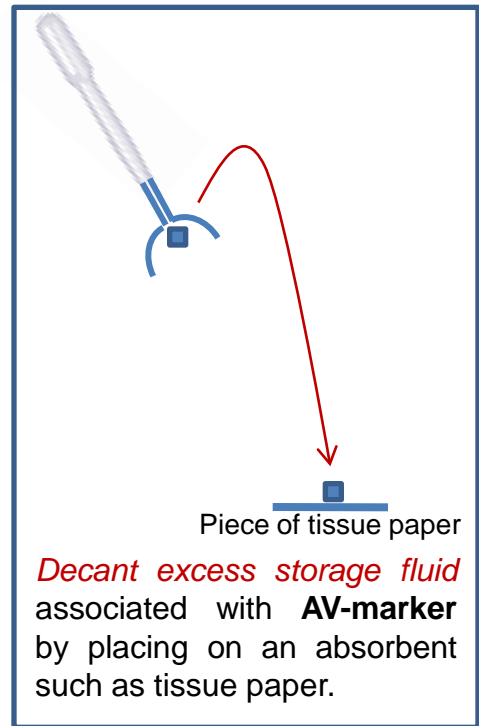
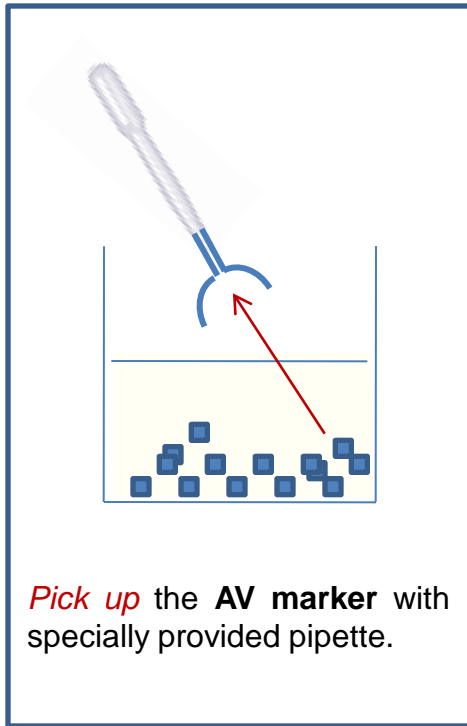
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## Directions on how to pick up and handle the AV markers

(The AV markers are relatively friable and should not be picked with crushing pressure such as with forceps)

For cell block making protocols with HistoGel™ and with Plasma-Thrombin method- see next pages.

# AV Marker for Cell Blocks

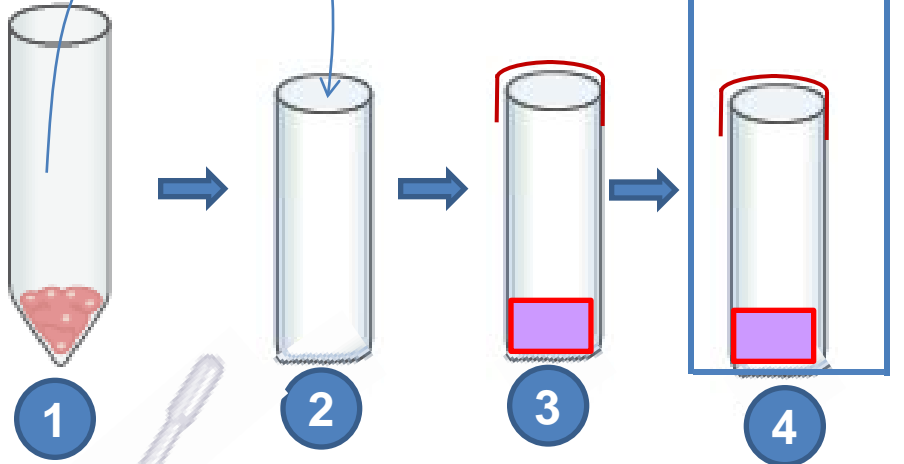
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This is an example for showing protocol application using **HistoGel™**

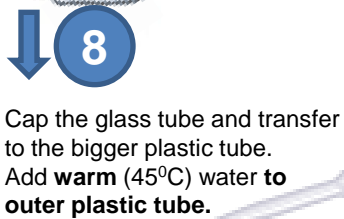
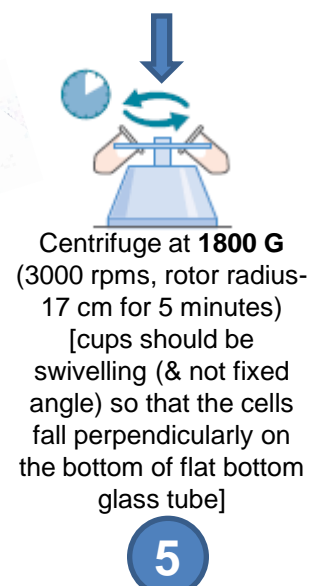
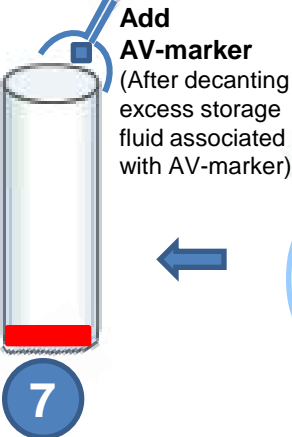
However, it *may be modified for other methods* after appropriate modifications.

**Modification for Plasma-Thrombin method is shown separately.**

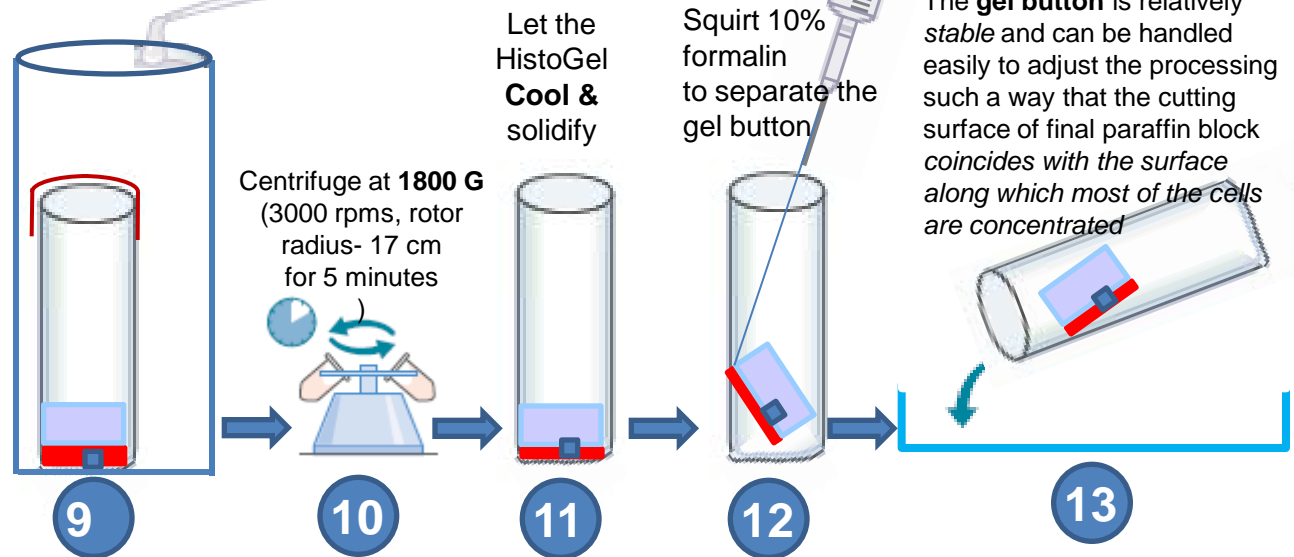
Concentrate the cells in LBC & transfer to flat bottom glass tube



Add molten **HistoGel** (to get the column of about 3 mm) & Mix quickly with the sediment



Cap the glass tube and transfer to the bigger plastic tube. Add **warm** (45°C) water to **outer plastic tube**.



The **gel button** is relatively *stable* and can be handled easily to adjust the processing such a way that the cutting surface of final paraffin block *coincides with the surface along which most of the cells are concentrated*

# Modification for *Plasma-Thrombin method.*

