

NUCLEAR ORGANIZER REGIONS (Ag-NOR)

Proliferative Tumor Marker 30 Tests

PRINCIPLE :

NORS are loops of DNA which are transcribed into ribosomal RNA . NORs can be demonstrated by staining with silver nitrate, since NOR-associated protein are argyrophilic, producing structures termed AgNORS. In some cases, this technique enables the distinction to be made between certain grades of malignancy and may enable prognostic assessment .

REAGENTS :

1.	Gelatin	5 ml
2.	Formic acid	5 ml
3.	Silver nitrate	10 ml

STABILITY :

Stable until the expiry date specified when stored at +4 to +8 °C.

PROCEDURE :

Working Reagent :

Silver staining solution was freshly prepared immediately before use as follows :

1. Add equal volumes of gelatin solution (R1) to formic acid (R2) , centrifuge if necessary.
2. Add one part of gelatin / formic acid solution to two parts of silver nitrate (R3) centrifuge if necessary.

Staining Method:

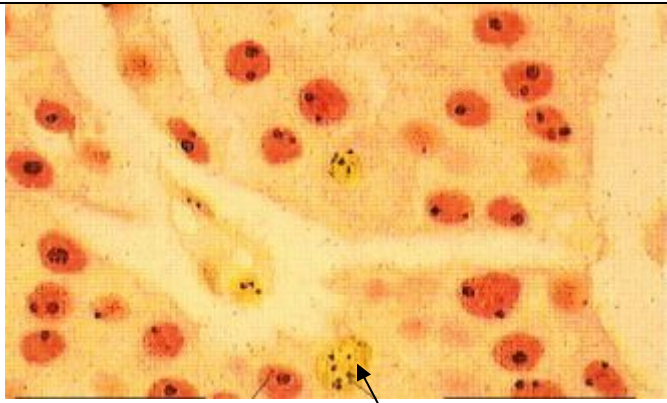
1. Deparaffinization of the tissue sections in xylene.
2. Sections were hydrated through descending series of ethyl alcohol, 5 minutes for each .
3. Sections were covered with 10 drops of working silver staining solution in a dark humidity chamber at room temp. for 30 -40 minutes .
4. Sections were washed by covering them with a layer of distilled water three times, 5 min. for each
5. Dehydrate through alcohol series, clear in xylene and mount in canada palsam or DPX .

Counting Procedure :

NORs represent the distribution of small true AgNORS throughout the nucleoplasm as a frequently observed in high malignant cells. The brown AgNORS dots were counted at a magnification of x1000 (oil emersion), using a color filter (such as green) since this reduced chromatic aberration and increases the clarity of AgNOR perimeters Two hundred cells were selected randomly from each specimen for NORs counting . All visible AgNORS dotes were counted individually by careful focusing .

REFERENCE :

Croker, J . Boldy, D. A. R. and Egan M.J. (1989)
J.Path. 158, 185 .
Underwood JCE, Giri DD. , (1990) ,J. Clin. Pathol.
, 43, 235 .



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Ag - NOR**

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(Ag – NOR)**

Histochemical Method
+4 to +8°C 30 Tests

CAT. No. AN 26 15

REAGENTS

R1	Gelatin	5 ml
R2	Formic Acid	5 ml
R3	Silver Nitrate	10 ml

CONTACTS

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