

Supplement 1- Immunohistochemistry Protocol

1. Sections were deparaffinized with xylene and hydrated in descending ethanol's baths.
2. The antigen retrieval was performed for 15 min in an electric pressure cooker.
3. Endogenous peroxidase activity was blocked by immersion in 6% H₂O₂ for 15 min
4. Sections were incubated with the primary antibody: Desmin (1:300, DAKO), Myogenin (1:100, DAKO), MyoD1 (1:100, DAKO), Ki67 (1:100, DAKO) for two hours at room temperature.
5. IHC staining was performed according to the manufacturer's protocol (DAKO, Carpinteria, CA, USA), followed by exposure to diaminobenzidine tetrahydrochloride (Sigma-Aldrich, St Louis, USA) for 5 min.
6. Slides were counterstained with Carazzi's hematoxylin for 5 min followed by dehydration in ascending ethanol's baths and diaphanization in xylene.
7. Finally, the slides were cover slipped using Entellan™ (Sigma Chemical CO., St Louis, MO/USA).
8. Appropriate control tissue was used for each antibody.