Schistosome Whole-Mount Tunel

Jim Collins 12-15-15

Note: Using AbCam in situ BrdU-Red DNA fragmentation (TUNEL) assay Kit, cat no. ab66110.

- 1.) Separate, fix, and dehydrate parasites using procedures for *in situ* hybridization.
- 2.) Rehydrate parasites in PBSTx. Rinse 1x
- 3.) Treat with 20 μ g/ml ProK in PBSTx for 45 min. at RT.
- 4.) Post Fix 10 min in 4% Formaldehyde in PBSTx for 10 min.
- 5.) Rinse 1x in PBSTx.
- 6.) Incubate in "Wash Buffer" from kit.
- 7.) Make up "DNA Labeling Solution": 10 μl "Reaction Buffer", 0.75 μl "TdT Enzyme", 8μl "Br-UTP", 33.25 μl H₂O. Use 50 μl/ 2-3 male worms.
- 8.) Incubate at 37°C for 4 hours while shaking.
- 9.) Rinse 2x in PBSTx at RT.
- 10.) Block for 45 min in in situ FISH block for 45 min.
- 11.) Incubate in 100 μ l Antibody Solution (5 μ l Anti-BrdU-Red Antibody, 95 μ l "Rinse Buffer") overnight at 4°C.
- 12.) Rinse 2x in PBSTx. Then wash for 2 hours with PBSTx with 1 μ g/ml DAPI.
- 13.) Clear samples in 80% Glycerol and mount on slides in Vectashield.