## **Xenopus Double In-Situ**

Perform in-situs as for single in-situ, add both fluorescein and digoxigenin labeled probes to hyb mix on day one.

Probe	Label With	Color Rxn With
Stronger	fluorescein	BCIP/NBT, develop first, can develop at 37°C
Weaker	digoxigenin	Fast Red (can also try Magenta Phos) 37°C OK

Use BCIP/NBT for the first chromogenic reaction as Fast Red is not color fast in alcohol.

## <u>DAY 3</u>

Following first chromogenic reaction stop the reaction with the following washes:

-3 x 5' in 1X MAB -10' MAB + 10mM EDTA -5' each 75% MAB/ 25% Methanol 50% MAB/ 50% Methanol 25% dH2O/ 75% Methanol 100% Methanol

Rehydrate into MAB through solutions as above

-Re-block for 1-2hrs in MAB + 2% BMB + 20% HIGS -Antibody incubation 4hrs RT or 4°C overnight. Use 1:2000 dilution anti-Dig AP or 1:4000 dilution anti-Fluorescein AP

## <u>DAY 4</u>

-Wash in MAB: 5 x 60 min at RT. (one can be O/N at  $4^{\circ}$ C if Ab incubation 4 hrs at RT) -Wash embryos 2 x 5 minutes in 0.1M Tris pH8.2

-Incubate in Fast Red until red staining is evident (Roche 1496549)

(Dissolve 1 Fast Red tablet in 2ml 0.1M Tris pH8.2, filter to eliminate any undissolved Fast Red).

-Post-fix embryos in MEMFA.

-Wash embryos in PBTriton (0.1%) or PTW following reaction.

-Store at or 4°C in above solutions or at -20°C in 50% glycerol (made up in 1X PBS).