Individual Run Sheet – Visualizing the Biotinylated Dextran Amine (BDA)

rd	ID:				
					
ea	ch Solution (per tr	av. 18.7 mL)			
		peroxide (H ₂ O ₂)	700 μL		
-	- Methanol (CH₃C	OH)	9 mL		
-	- 1x PBS		9 mL		
re	ptavidin Solution (per tray, ~20 mL)			
-	- 0.4% PBS-Tx		20 mL		
-	- Streptavidin (flu	iorescent)			
	or				
	Streptavidin – H	IRP (chromogenic)	μL		
١	Wash sections in 1x	PBS for 3x5 minut	es. 🗆 🗆 🗆		
			5 0. <u> </u>		
E	Bleach sections for 20 minutes.				
	1 mL solution per section	Methanol	30% Hydrogen Peroxide	1x PBS	
	1 section				
	20 sections	9 mL	700 μL	9 mL	
_					
١	Wash sections in 1x	PBS for 5x5 minut	es. 🗌 🗎 🗎 🗎 🗎		
ı	ncubate sections ir	reagent () (dilution 1:	
		hour at room temp		, ,	
	1 mL solution per section	Reagent	0.4% PBS-Tx		
	1 section	μΙ	1 mL		
	20 sections	μΙ	20 mL		
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DAB Staining Chromogenic

Diaminobenzidine peroxidase reaction medium for BROWN reaction product

_	30% Hydrogen peroxide (H₂O₂)	7.5 µl	15 µl
-	DAB (Sigma)	12.5 mg	25 mg
_	1x PBS	50 mL	100 mL

Diaminobenzidine peroxidase reaction medium for **BLACK** reaction product

_	0.5% Cobalt(II) chloride (CoCl₂)	1.5 mL	3 mL
-	30% Hydrogen peroxide (H₂O₂)	7.5 μl	15 μΙ
-	DAB (Sigma)	12.5 mg	25 mg
_	1x PBS	48.5 mL	97 mL

Protocol

- 1. Prepare a waterbath containing bleach to neutralize spills and to deactivate DAB after experiment is finished.
- 2. Prepare diaminobenzidine peroxidase reaction medium.
 - a. BDA is detected with a black DAB reaction while CTB is detected with a brown DAB reaction.
- 3. Incubate the sections in the reaction medium until the reaction is considered complete this can be from 10 seconds to 2 minutes.
- 4. Wash sections in 1x PBS for 3x10 minutes.